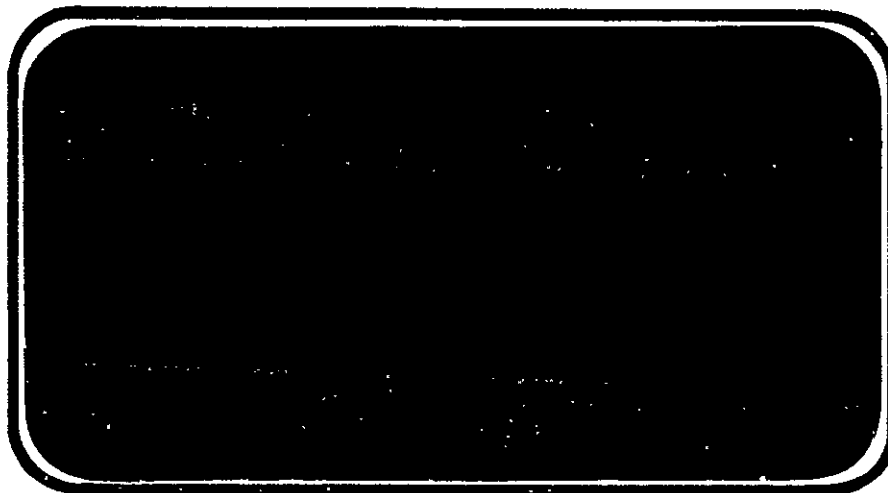




NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-

141825



(NASA-CR-141825) RESULTS OF AN
INVESTIGATION OF THE 0.003-SCALE SPACE
SHUTTLE EXTERNAL TANK MSFC MODEL 460 IN THE
NASA/MSFC 14 X 14 INCH TRISONIC WIND TUNNEL
TO DETERMINE STATIC PRESSURE DISTRIBUTIONS

N76-16155

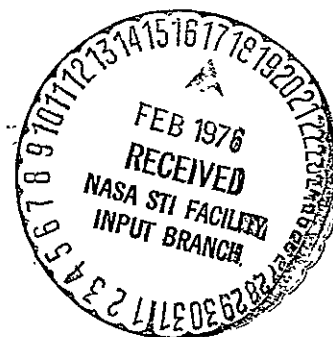
HC \$21.25

Unclas

G3/18 13810

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services

SPACE DIVISION



CHRYSLER
CORPORATION

November, 1975

DMS-DR-2165
NASA CR-141,825

VOLUME 3 OF 5

RESULTS OF AN INVESTIGATION OF THE 0.003-SCALE
SPACE SHUTTLE EXTERNAL TANK MSFC MODEL 460
IN THE NASA/MSFC 14 X 14-INCH TRISONIC WIND TUNNEL
TO DETERMINE STATIC PRESSURE DISTRIBUTIONS DURING
REENTRY (TA2F)

by

P. E. Ramsey, MSFC
G. W. Winkler, NSI

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division
Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: MSFC TWT 596
NASA Series Number: TA2F
Model Number: 460
Test Dates: July 20-23, 1974
Occupancy Hours: 104

FACILITY COORDINATOR:

C. D. Andrews
Marshall Space Flight Center
Mail Code ED32
Huntsville, Ala. 35801

Phone: (205) 453-2519

PROJECT ENGINEERS:

Paul Ramsey
Marshall Space Flight Center
Mail Code ED32
Huntsville, Ala. 35801

Phone: (205) 453-2519

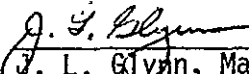
G. W. Winkler
Northrop Services, Inc.
6025 Technology Drive
Huntsville, Ala. 35807

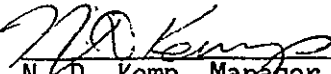
Phone: (205) 837-0580

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--V. W. Sparks
Operations--G. W. Klug, Maurice Moser, Jr.

Reviewed by: D. E. Poucher

Approved: 
J. L. Glynn, Manager
Data Operations

Concurrence: 
N. D. Kemp, Manager
Data Management Services

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF AN INVESTIGATION OF AN 0.003-SCALE
SPACE SHUTTLE EXTERNAL TANK MSFC MODEL 460 IN THE
NASA/MSFC 14 x 14-INCH TRISONIC WIND TUNNEL TO
DETERMINE STATIC PRESSURE DISTRIBUTIONS DURING REENTRY
(TA2F)

by

P. E. Ramsey, MSFC, and G. W. Winkler, NSI

ABSTRACT

Objective of the test was to obtain static pressure distributions for the ET at reentry conditions. Basic configuration of the model was the MCR 0200 ET modified to include a rectangular crossbar at the aft ET/orbiter attach point. Mach numbers were 1.96, 3.48, and 4.96. Reynolds number per foot at these Mach numbers were 6.95 million, 6.42 million, and 4.95 million, respectively. Angle of attack range was -8 to 100 degrees and roll angle was 0 to 315 degrees. Occupancy hours were 104.

{This page intentionally left blank.}

TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	3
INDEX OF DATA FIGURES	4
NOMENCLATURE	6
INTRODUCTION	10
MODEL DESCRIPTION	11
CONFIGURATIONS INVESTIGATED	13
TEST FACILITY DESCRIPTION	14
TEST PROCEDURE	16
DATA REDUCTION	17
REFERENCES	19
TABLES	
I. TEST CONDITIONS	20
II. DATA SET/RUN NUMBER COLLATION SUMMARY	21
III. MODEL DIMENSIONAL DATA	29
IV. TABULATED DATA PRINT-OUT FORMAT AND COLLATION BETWEEN TUBE NUMBER, ORIFICE NUMBER, AND ORIFICE LOCATION ON MODEL--SIDE-MOUNTED ET	41
V. TABULATED DATA PRINT-OUT FORMAT AND COLLATION BETWEEN TUBE NUMBER, ORIFICE NUMBER, AND ORIFICE LOCATION ON MODEL--TAIL MOUNTED ET	43
VI 0.003-SCALE 324-INCH ET REFERENCE DIMENSIONS	45
FIGURES	
MODEL	46

TABLE OF CONTENTS (Concluded)

	Page
DATA	51
VOLUME 1--Pages 1-720	
VOLUME 2--Pages 721-1200	
VOLUME 3--Pages 1201-2000	
VOLUME 4--Pages 2001-2740	
APPENDIX	
TABULATED SOURCE DATA	51
VOLUME 5	

INDEX OF MODEL FIGURES

<u>Figure</u>	<u>Title</u>	<u>Page</u>
1.	Missile Axis Systems	46
2.	Model Sketches	
	a. General Arrangement of MSFC Model 460, Configuration T ₁ External Tank with Protuberances	47
	b. External Tank Model Pressure Orifice Locations	48
3.	Model Photographs	
	a. External Tank Model No. 460, Configuration T ₁ Tail-Mounted with Protuberances	49
	b. External Tank Model No. 460, Configuration T ₂ Side-Mounted without Protuberances	50

INDEX OF DATA FIGURES

FIGURE NUMBER	TITLE	CONDITIONS VARYING	PLOTTED COEFFICIENTS SCHEDULE	PAGES
<u>VOLUMES 1 AND 2</u>				
4	PRESSURE DISTRIBUTION OVER ET - T1 MODEL WITH PROTUBERANCES	PHI, ALPHA, THETA, MACH	A	1-1200
<u>VOLUME 3</u>				
5	CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES	PHI, ALPHA, X/LB, MACH	B	1201-2000
<u>VOLUME 4</u>				
6	LOCAL NORMAL FORCE DISTRIBUTION - T1 WITH PROTUBERANCES	PHI, ALPHA, MACH	C	2001-2040
7	LOCAL SIDE FORCE DISTRIBUTION - T1 WITH PROTUBERANCES	PHI, ALPHA, MACH	D	2041-2080
8	PRESSURE DISTRIBUTION OVER ET - T2 MODEL WITHOUT PROTUBERANCES	ALPHA, THETA, MACH	A	2081-2440
9	CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T2 WITHOUT PROTUBERANCES	ALPHA, X/LB, MACH	B	2441-2680
10	LOCAL NORMAL FORCE DISTRIBUTION - T2 WITHOUT PROTUBERANCES	ALPHA, MACH	C	2681-2692
11	LOCAL SIDE FORCE DISTRIBUTION - T2 WITHOUT PROTUBERANCES	ALPHA	D	2693-2704
12	STABILITY CHARACTERISTICS - WITH AND WITHOUT PROTUBERANCES (T1 - T2)	PHI, MACH CONFIGURATION	E	2705-2740

INDEX OF DATA FIGURES (Concluded)

SCHEDULE OF COEFFICIENTS PLOTTED:

- A) CP vs. X/LB
- B) CP vs. THETA
- C) $DCNM/D(X/LB)$ vs. X/LB
- D) $DCYM/D(X/LB)$ vs. X/LB
- E) CNM vs. ALPHA
CLMM
CYM
CYNM

NOMENCLATURE

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>	<u>Units</u>
a		speed of sound	m/sec, ft/sec
A_b		base area; cross-sectional area of the cylindrical ET	in. ²
b_{ref}	BREF	reference span; diameter of the cylindrical section of the model	in.
ET		external tank	
FA		axial force (AF), positive in the negative direction of x_m	lb
F_N		normal force (NF), positive in the negative direction of z_m	lb
F_y		side force (SF), positive in the positive direction of y_m	lb
l_B	LBODY	length of the ET	in.
l_{ref}	LREF	reference length; diameter of the cylindrical section of the model	in.
M	MACH	Mach number; V/a	
MRP	MRP	moment reference point located in the x_m , y_m , z_m axes by XMRP, YMRP, and ZMRP (See Data Reduction section)	
M_x		rolling moment (RM); a moment about the x_m axis (a positive rolling moment tends to rotate the positive y_m axis toward the positive z_m axis)	in.-lb
M_y		pitching moment (PM); a moment about the y_m axis (a positive pitching moment tends to rotate the positive z_m axis toward the positive x_m axis)	in.-lb
\bar{c}_g		center of gravity	

NOMENCLATURE (Continued).

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>	<u>Units</u>
M_z		yawing moment (YM); a moment about the z_m axis (a positive yawing moment tends to rotate the positive x_m axis toward the positive y_m axis)	in.-lb
p_∞	P	pressure, freestream	psi
p_o	P0	stagnation pressure	psi
q_∞	Q(PSI)	free stream dynamic pressure	psi
S_{ref}	SREF	reference area; cross-sectional area of the cylindrical section of the model	in. ²
RN/L	RN/L	unit Reynolds number	per m, per ft
SRB		solid rocket booster	
V		velocity	m/sec, ft/sec
x_m, y_m, z_m		missile axis system (see Data Reduction section)	
X		distance from nose of ET model in the negative x_m direction	in.
x_T, y_T, z_T		model stations; (see figure 2a)	in.
X_{CP}/l_B	XCP/L	longitudinal position of the center of pressure, expressed as a fraction of the ET length, measured from the ET nose	
$\frac{X_{CP}}{l_B} = \frac{X_{MRP}}{l_B} - \frac{C_{m_m}}{C_{N_m}} \frac{l_{ref}}{l_B}$			
\bar{c}		aerodynamic chord	m, ft
COEFFICIENTS			
C_{A_m}	CA	axial force coefficient; $F_A/q S_{ref}$	

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>	<u>Units</u>
$C_{A_{bm}}$	CAB	base axial force coefficient; $(p_{\infty} - p_b) A_B / q S_{ref}$	
C_{A_f}	CAF	forebody axial force coefficient; $C_{A_m} - C_{A_{bm}}$	
C_{ℓ_m}	CBL	rolling moment coefficient; $M_x / q S_{ref} b_{ref}$	
C_{m_m}	CLMM	pitching moment coefficient; $M_y / q S_{ref} \ell_{ref}$	
C_{N_m}	CNM	normal force coefficient; $F_N / q S_{ref}$	
C_{n_m}	CYNM	yawing moment coefficient; $M_z / q S_{ref} b_{ref}$	
C_p	CP	pressure coefficient; $(p - p_{\infty}) / q$	
C_{Y_m}	CYM	side force coefficient; $F_y / q S_{ref}$	
C'_{N_m}	DCN/DX	local normal force coefficient; $\partial C_N / \partial (X/D)$	
C'_{Y_m}	DCY/DX	local side force coefficient; $\partial C_Y / \partial (X/D)$	

SYMBOLS

α	ALPHA	angle of attack	deg.
β	BETA	angle of sideslip	deg.
ϕ	PHI	angle of roll	deg.
ψ	PSI	angle of yaw	deg.

NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>	<u>Units</u>
θ	THETA	circumferential location	deg.
ρ		mass density	kg/m ³ , slugs/ft ³
ref		reference conditions	
∞		free stream conditions	
b		base	
c		cavity	
t		total conditions	
B		model body	
T		external tank	
m		missile axis system	
l		local	
s		static conditions	
	MOUNT	1.0 indicates tail mounted (T_1) 2.0 indicates side mounted (T_2)	

INTRODUCTION

After the solid rocket boosters and the external tank separate from the orbiter, the ET will reenter the earth's atmosphere at high supersonic or even hypersonic Mach numbers. This test is the second of two tests conducted in the NASA-MSFC 14-inch Trisonic Wind Tunnel to obtain force and pressure data on the 324-inch diameter ET at typical reentry angles of attack.

Model (MSFC No. 460) configuration is a 0.003-scale representation of the ET with fuel lines and forward and aft SRB and orbiter attach hardware. Also included is the ET/orbiter rectangular crossbar attach structure.

Pressure taps (192 total) were used to obtain data for evaluating the load distribution on the ET. Further evaluation of the ET aerodynamic characteristics can be made by comparing data from this test with data from TWT 583 (reference 4).

Pressure data were taken at three Mach numbers: 1.96, 3.48, and 4.96. Angle of attack range was -8 to 100 degrees, which was obtained by using two ET model mountings. Range -8 to 30 degrees used a tail-mounted model (T_1) for each of eight roll positions, 0 to 315 degrees. This model had attach structure and protuberances. For the range of 51 to 100 degrees, a side-mounted model (T_2) at 0° roll position was used.

MODEL DESCRIPTION

The model is a 0.003-scale of the MCR 0200 space shuttle ET configuration modified to include a crossbar at the aft orbiter/ET attach points. General arrangement of the model is shown in figure 2a. The model is designated MSFC #460, and it consists of two ET models (one tail-mounted and one side-mounted); protuberances simulating fuel lines, attachment hardware, etc.; and model adapters which allowed the tanks to be supported in the tunnel on RI stings #1 and #3. The models were built by NASA to conform to the configuration specified by Rockwell International drawing VL78-000041B (Reference Drawing 6) and Martin-Marietta memo SA-A-74-9 (Reference Report 2).

Both ET models were made of stainless steel and contained 192 pressure orifices each. From these orifices, stainless steel and annealed 0.032-inch OD tubing was routed out the base (or the side) of the model. Four feet of 0.050-inch OD tubing was brazed onto each of the 0.032-inch tubes as close to the exit cavity as possible.

When placed in the tunnel test section, the tubing bundle from the model was secured along the sting and routed down the sector through the tunnel floor. At this point, Tygon tubing was used to connect the steel tubing to quick disconnects, which were connected to the scanivalves. Installation photographs for the tail mounted (T_1) and side mounted (T_2) models are in figures 3a and 3b, respectively.

Model stations are sometimes used to describe locations of various components of the model. When used, these stations will be given in

MODEL DESCRIPTION (Concluded)

inches model scale and the zero reference points will be same as in Rockwell International drawing VL72-000088"D" (Reference Drawing 2). Zero reference points are shown in figure 2a.

CONFIGURATIONS INVESTIGATED

Two ET configurations investigated are defined as follows:

T₁--MCR 0200 tail-mounted, modified to include crossbar configuration with protuberances.

T₂--MCR 0200 side-mounted, "clean" configuration (without protuberances).

Each of the configurations consists of the following model components:

T₁--T₁₂ AT₅ AT₆ AT₇ AT₈ AT₉ PT₁ PT₂ PT₃ FL₁ FL₂ FR₆

T₂--T₁₂

Brief descriptions of each component are below. Refer to table

III for dimensional data.

T₁₂ Baseline 324-inch diameter external oxygen-hydrogen tank

AT₅ Forward orbiter/ET attach structure

AT₆ Left rear orbiter/ET attach structure

AT₇ Right rear orbiter/ET attach structure

AT₈ Forward SRB/ET attach structure

AT₉ Aft SRB/ET attach structure

PT₁ LOX vent line fairing

PT₂ LOX feed line

PT₃ LH₂ feed line

FL₁ LOX feed line

FL₂ LH₂ feed line

FR₆ Aft ET/orbiter crossbar

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by utilizing two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50, and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.44, 1.93 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks is tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

The tunnel flow is established and controlled with a servo actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F. The air then passes through the test section which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of 20° (+10°). Sting offsets are available for obtaining various maximum angles of attack up to 95°.

TEST FACILITY DESCRIPTION (Concluded)

The diffuser section has movable floor and ceiling panels which are the primary means of controlling the subsonic Mach numbers and permit more efficient running supersonically. The sector assembly and supersonic diffuser telescope into the subsonic diffuser to allow easy access to the model and test section.

Tunnel flow is exhausted through an acoustically damped tower to atmosphere or into the vacuum field of 42,000 cubic feet. The vacuum tanks are evacuated by vacuum pumps driven by a motor of 500 hp.

Data are recorded by a solid-state digital data acquisition system. The digital data are transferred to punched cards during the run to be reduced later by a computer to proper coefficient form.

TEST PROCEDURE

First part of the test was conducted using a side-mounted, "clean" configuration (T_2 without protuberances). Since it was a "clean" configuration, the roll angle was considered to always be 0 degrees. Angle of attack range was from 51 to 100 degrees in increments of 3 degrees. Data were obtained at Mach numbers of 1.96, 3.48, and 4.96.

Second part of the test consisted of using a tail-mounted model with attach hardware, fuel lines, and electrical tunnel. Angle of attack range was from -8 to 30 degrees in increments of 4 degrees. Data were obtained at eight roll positions, 0 to 315 degrees in 45-degree increments. All orifices and tubing were checked for leakage at the beginning of the test and after each roll position change. A leak check after rolling the model insured that correct measurements were being received from the orifices. Response time for the scanivalve function was within the one-second intervals allowed each scanivalve.

List of average test conditions is in table I. Dataset run number collation summary is in table II.

DATA REDUCTION

Location of each pressure orifice and the numbering system are presented in tables IV and V. Also special identification of blocked or inoperative pressure orifices is made for both tail-mounted and side-mounted models in these tables. Locations of these orifices are shown in figure 2b.

Sting deflections were measured outside the tunnel by using check weights. Sting deflections versus load curve for the pressure test (TWT 596) was found to be the same, within allowable accuracy, as that of the force test (TWT 583). The same ET configuration and only slightly different support hardware were used in both force and pressure tests. Increments of α due to sting bending in the force test were added to the nominal α 's for the pressure test. This gave reasonably accurate values of angle of attack, accuracy comparable to force test, when the pressure model was tested at the same Mach number and tunnel total pressure as the force model.

Pressure data were reduced to coefficient form and are tabulated along with wind tunnel parameters, configuration, and run number in the appendix. Plots are presented for both longitudinal and circumferential pressure distributions (C_p vs X/ℓ_B and C_p vs θ). These plots are shown for each Mach number, angle of attack, and roll position at which tests were conducted. In addition, the pressure coefficients were integrated to obtain the following missile axis force and moment coefficients:

DATA REDUCTION (Concluded)

$C_{N_m} = F_N/q S_{ref}$	normal force coefficient
$C_{Y_m} = F_Y/q S_{ref}$	side force coefficient
$C_{m_m} = M_Y/q S_{ref} l_{ref}$	pitching moment coefficient
$C_{n_m} = M_Z/q S_{ref} b_{ref}$	yawing moment coefficient
$C'_{N_m} = \partial C_N / \partial (X/D)$	local normal force coefficient
$C'_{Y_m} = \partial C_Y / \partial (X/D)$	local side force coefficient

Force and moment coefficients obtained from the integration of pressures are for comparison with the results from the force test.

Model reference dimensions used in the data reduction are presented in table VI. The axis system diagram is presented in figure 1. The missile axis system (x_m, y_m, z_m) is a non-rolling body axis system that is frequently used in wind tunnel tests and studies of missile flight dynamics. It is a system of axes that rotates with a missile or wind tunnel model through angles of sideslip and angles of attack but never through angles of roll; i.e., it never rotates about the missile or model longitudinal axis. The orientation of the missile axis coefficients is defined in figure 1. The missile axis system is identical with the body axis system at zero roll angle.

Moment reference point (MRP) for the 0.003-scale model is taken to be at the dry weight center of gravity of the ET. For the full-scale ET, the center of gravity is located at $X_T = 1395.4$ inches. Thus, the MRP for the 0.003-scale ET model is 3.259 inches from the model nose, on the centerline (figure 2a).

REFERENCES

1. NASA TMX-53185, "The George C. Marshall Space Flight Center's 14 x 14 Inch Trisonic Wind Tunnel Technical Handbook," Simon, Erwin; December 1964.
2. SA-A-74-9, "Space Shuttle External Tank Entry Force and Moment Wind Tunnel Test Requirements," Michna, D. J., Michoud Operations, Martin Marietta Corporation, February 1974.
3. NSI-M-9230-74-270, "A Pre-test Report for MSFC TWT 596, An Investigation to Determine the Static Pressure Distributions During Reentry of a 0.003-scale Modified MCR 200 Space Shuttle External Tank Model in the NASA-MSFC 14 x 14-Inch Trisonic Wind Tunnel," Robertson, M, K. and Winkler, G. W., April 1974.
4. DMS-DR-2145, NASA CR-134,420, "Static Stability Characteristics of the Space Shuttle External Tank (MSFC Model 458) During Reentry in the MSFC 14-inch TWT (TAIF)," by Ramsey, Paul E., Robertson, Michael K., and Winkler, Gary W. October 1974.

REFERENCE DRAWINGS

1. VL72-000106, 8-6-73; SRB to ET Aft Attach, Approved Link Concept, Shuttle Study; Rockwell International.
2. VL72-000088 "D", 8-3-73; Shuttle Configuration Control, MCR 0200 Baseline Rev. III, Dated 7-2-73; Rockwell International.
3. VL78-000031 "A", 6-29-73; Thermal Protection-External Tank MCR 0200 Baseline Dated 4-11-73; Rockwell International.
4. VL77-000051 "A", 9-10-73; SRB Single PT.-Fwd Thrust Fitting (MCR 0190 Rev. 3 Baseline 8-13-73); Rockwell International.
5. SS-A01176 (Wind Tunnel Model Group); Details - .015 Scale EOHT Attachments (140 A/B) (67-OTS) 11-20-73; Rockwell International.
6. VL78-000041 "B", 5-30-73; External Tank Configuration Control MCR 0200 Revision 1 Dated 5-16-73; Rockwell International.

Table I.

[illegible]

TABLE II.

TEST: MSFC TWT 596		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: July 1974						
DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES						NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	REF-SET	MT.	ϕ			1.96	3.48	4.96							
RIA001	T, (TAIL MOUNTED	-8	0	0	TAIL	0		3	86	140	139							
002	E.T. WITH	-4						3	87	137	138							
003	PROTUBERANCES)	0						5	88	136	135							
004		4						3	89	133	134							
005		8		Y				5	90	132	131							
006		12		20				3	85	141	142							
007		16						3	84	144	143							
008		20						3	83	145	146							
009		24						3	82	148	147							
010		28		Y		Y		3	81	149	150							
011		-8		0		90		3	80	170	169							
012		-4						3	79	167	168							
013		0						3	78	166	165							
014		4						3	77	163	164							
015		8		Y				3	76	162	161							
016		12		20				3	75	159	160							
Y 017		16						3	74	158	157							
RIA 018	Y	20	Y	Y	Y	Y		3	73	155	156							

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CP													
COEFFICIENTS													
IDVAR (1) IDVAR (2) NDV													
α OR β SCHEDULES													

TABLE II. (Continued)

TEST: MSFC TWT 596		DATA SET/RUN NUMBER COLLATION SUMMARY							DATE: July 1974									
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	OFF-SET	MT.	ϕ			1.96	3.48	4.96							
R1A 019	T, (TAIL-MOUNTED	24	0	20	TAIL	90		3	72	154	153							
020	ET WITH	28		↓		↓		3	71	151	152							
021	PROTUBERANCES)	-8		0		135		2		179	180							
022		-4						2		178	177							
023		0						2		175	176							
024		4						2		173	172							
025		8		↓				2		174	171							
026		12		20				2		190	189							
027		16						2		187	188							
028		20						2		186	185							
029		24						2		183	184							
030		28		↓		↓		2		182	181							
031		-8		0		180		3	61	210	209							
032		-4						3	62	207	208							
033		0						3	63	206	205							
034		4						3	64	203	204							
035		8		↓				3	65	202	201							
R1A 036	Y	12	Y	20	Y	Y		3	66	199	200							

1	7	13	19	25	31	37	43	49	55	61	67	75	76
CP													
COEFFICIENTS													
IDVAR (1) IDVAR (2) NDV													
α OR β SCHEDULES													

TABLE II. (Continued).

TEST: MSFC TWT 596			DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: JULY 1974						
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										
		α	β	OFF-SET	MT.	ϕ			1.96	3.48	4.96								
R1A 037	T, (TAIL-MOUNTED	16	0	20	TAIL	180		3	67	198	197								
038	E.T. WITH	20						3	68	195	196								
039	PROTUBERANCES)	24						3	69	194	193								
040		28		Y		Y		3	70	191	192								
041		-8		0		225		2		255	126								
042		-4						2		254	127								
043		0						2		253	128								
044		4						2		252	129								
045		8		Y				2		251	130								
046		12		20				2		260	121								
047		16						2		259	122								
048		20						2		258	123								
049		24						2		257	124								
050		28		Y		Y		2		256	125								
051		-8		0		270		3	96	101	102								
052		-4						3	97	104	103								
Y 053		0						3	98	105	106								
R1A 054	Y	4	Y	Y	Y	Y		3	99	108	107								

17576

CP

COEFFICIENTS

IDVAR (1) IDVAR (2) NDV

α OR β

SCHEDULES

TABLE II. (Continued)

[illegible]

TABLE II. (Continued)

TEST: MSFC TWT 596		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: July 1974						
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	OFF SET	MT.	θ	STING COMB		1.96	3.48	4.96							
RIA 061	T ₂ (SIDE-MOUNTED	51	0	60	SIDE	0	C	3	60	1/1	2							
062	ET WITHOUT	54						3	59	4	3							
063	PROTUBERANCES)	57						3	58	5	6							
064		60						3	57	8	7							
065		63						3	56	9	10							
066		66						3	55	12	11							
067		69		Y			Y	3	54	13	14							
068		70		80			D	3	53	16/1	15							
069		72						3	52	17	18							
070		75						3	51	20	19							
071		78		Y			Y	3	50	21	22							
072		80		90			E	3	49	24	23							
073		82						3	48	25	26							
074		85						3	47	28	27							
075		88						3	46	29	30							
076		90						3	45	32	31							
Y 077		92						3	44	33	34							
RIA 078	Y	95	Y	Y	Y	Y	Y	3	43	36	35							

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CP

α OR β

SCHEDULES

COEFFICIENTS

$\alpha C: 50^\circ \rightarrow 70^\circ$

$\alpha D: 70^\circ \rightarrow 90^\circ$

IDVAR (1) IDVAR (2) NDV

$\alpha E: 80^\circ \rightarrow 100^\circ$

TABLE II. (Continued)

[illegible]

TABLE II. (Continued)

TEST: MSFC TWT 596		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: July 1974						
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)									
		α	β	OFF SET	MT.	ϕ			1.96	3.48	4.96							
R1A 081	T ₁ (TAIL-MOUNTED	-8	0	0	TAIL	45		2		219	220							
082	ET WITH	-4						2		218	217							
083	PROTUBERANCES)	0						2		215	216							
084		4						2		214	213							
085		8		✓				2		211	212							
086		12		20				2		230	229							
087		16						2		227	228							
088		20						2		226	225							
089		24						2		223	224							
090		28		✓		✓		2		222	221							
091		-8		0		315		2		250	249							
092		-4						2		247	248							
093		0						2		246	245							
094		4						2		243	244							
095		8		✓				2		242	241							
096		12		20				2		239	240							
✓ 097		16						2		238	237							
R1A 098	✓	20	✓	✓	✓	✓	✓	2		235	236							

TEST RUN NUMBERS

27

1 7 13 19 25 31 37 43 49 55 61 67 75 76

CP

COEFFICIENTS
IDVAR (1) IDVAR (2) NDV

α OR β

SCHEDULES

TABLE II. (Concluded).

[illegible]

TABLE III. MODEL DIMENSIONAL DATA

MODEL COMPONENT: EXTERNAL TANK - T₁₂

GENERAL DESCRIPTION: EXTERNAL OXYGEN - HYDROGEN TANK WITH OGIVE NOSE AND
SEMI-ELLIPTICAL TAIL. BEGINNING AT MODEL TANK STATION 0.927 AND ENDING AT STATION
6.522

MODEL SCALE: 0.003

REFERENCE DRAWING: VL78-000041B

<u>DIMENSIONS:</u>	THEORETICAL	
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1865 in.</u>	<u>5.595 in.</u>
Max. Width	<u>324 in.</u>	<u>0.972 in.</u>
Fineness Ratio	<u>5.756 in.</u>	<u>5.756 in.</u>
Max. Cross-Sectional	<u>572.555 ft²</u>	<u>0.742 in.²</u>
Base	<u>572.555 ft²</u>	<u>0.742 in.²</u>
WL OF TANK CENTERLINE	<u>400 in.</u>	<u>1.200 in.</u>

TABLE III. (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT₅

GENERAL DESCRIPTION: FORWARD ORBITER/ET ATTACH STRUCTURE

(2 MEMBERS)

MODEL SCALE: 0.003

REFERENCE DRAWING: VL72-000088D

ALL DIMENSIONS IN INCHES MODEL SCALE

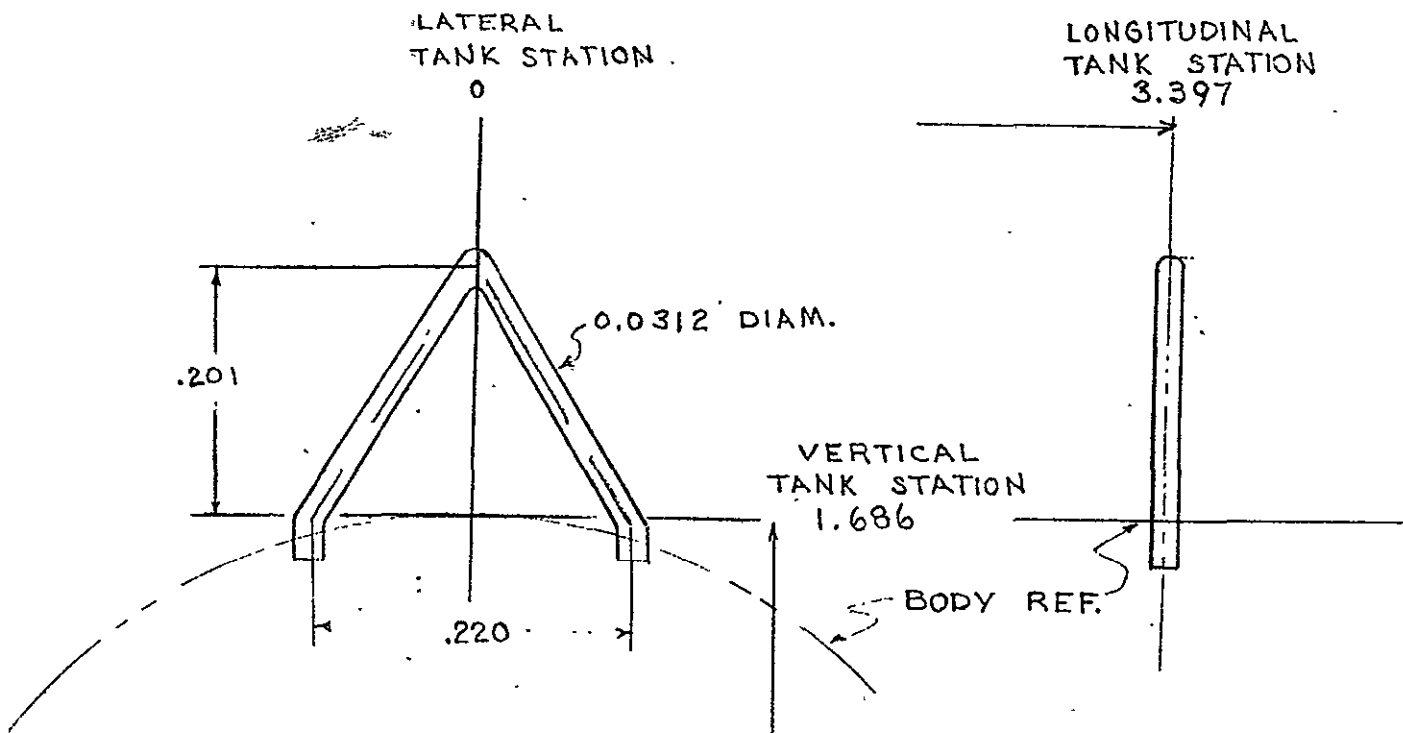


TABLE III. (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT₆

GENERAL DESCRIPTION: LEFT REAR ORBITER/ET ATTACH STRUCTURE (2 MEMBERS)

MODEL SCALE: 0.003

REFERENCE DRAWING: VL78-000050

ALL DIMENSIONS IN INCHES MODEL SCALE

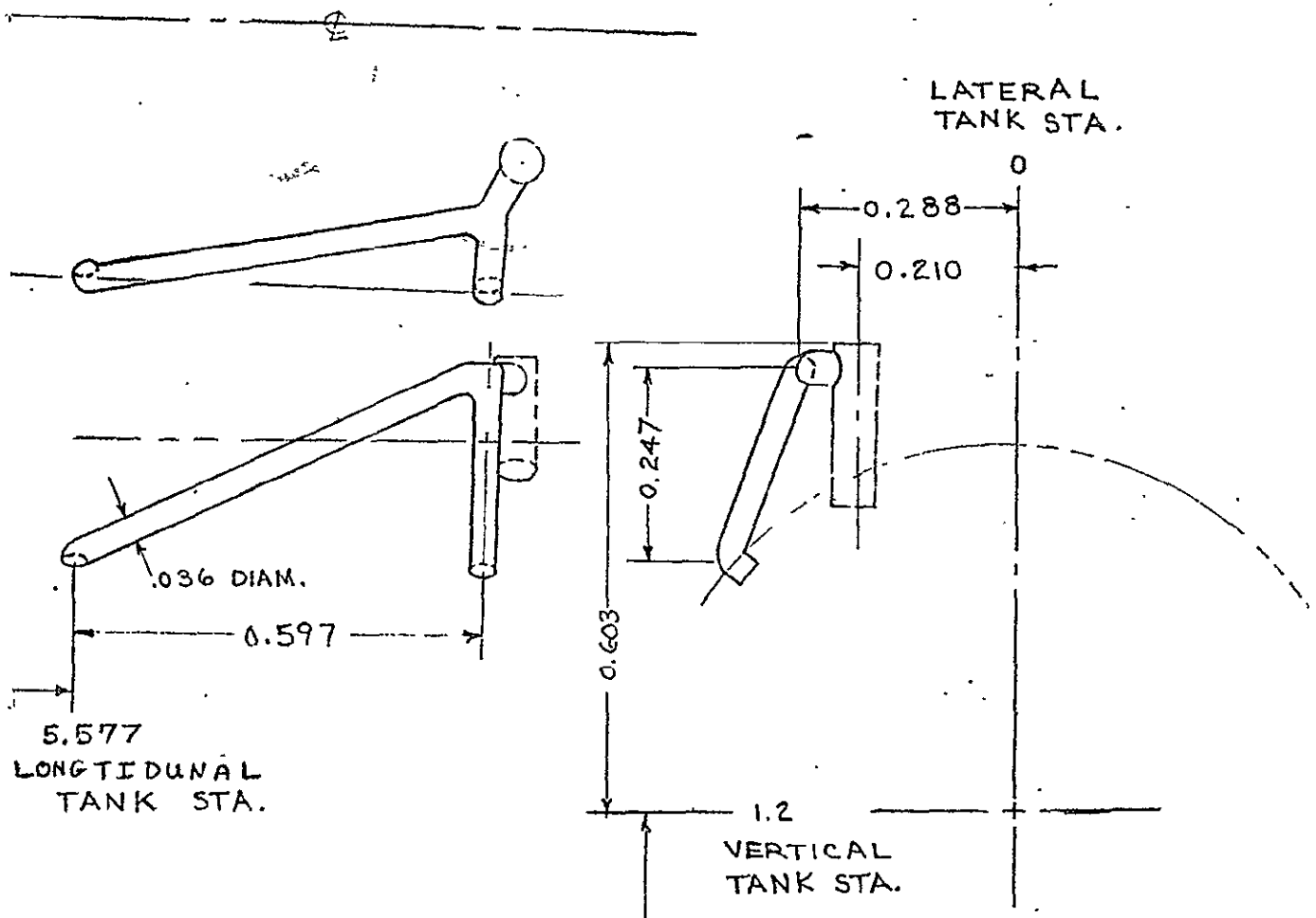


TABLE III. (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT7

GENERAL DESCRIPTION: RIGHT REAR ORBITER/ET ATTACH STRUCTURE (3 MEMBERS)

MODEL SCALE: 0.003

REFERENCE DRAWING: VL78-000050

ALL DIMENSIONS IN INCHES MODEL SCALE

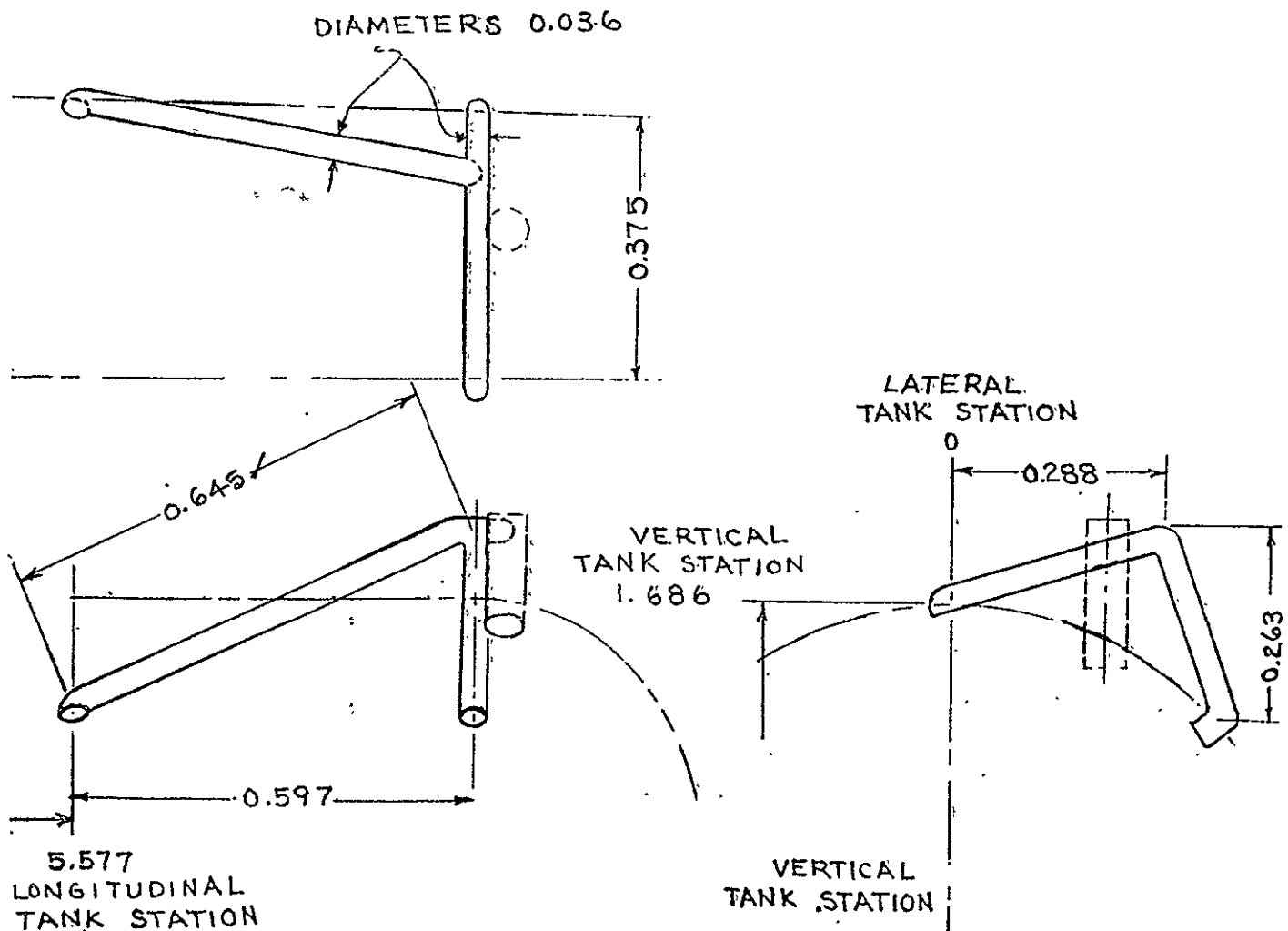


TABLE III. (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT₈

GENERAL DESCRIPTION: FORWARD SRB/ET ATTACH STRUCTURE (ET PORTION TESTED ONLY)

MODEL SCALE: 0.003

REFERENCE DRAWING: VL77-000051A

ALL DIMENSIONS IN INCHES MODEL SCALE

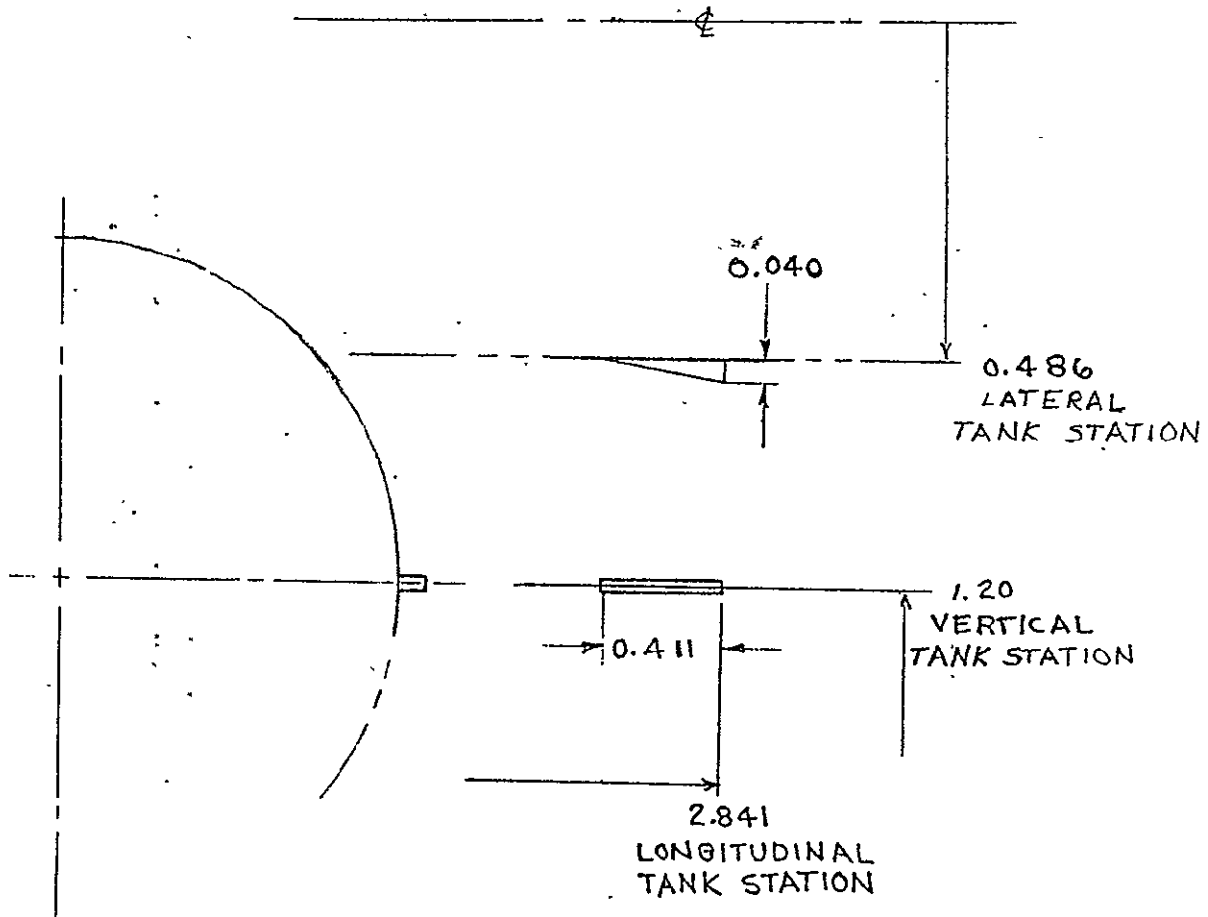


TABLE III. (Continued)

MODEL COMPONENT: ATTACH STRUCTURE - AT₉

GENERAL DESCRIPTION: AFT SRB/ET ATTACH STRUCTURE (3 MEMBERS) (ET PORTION TESTED ONLY)

MODEL SCALE: 0.003

REFERENCE DRAWING: VL72-000106

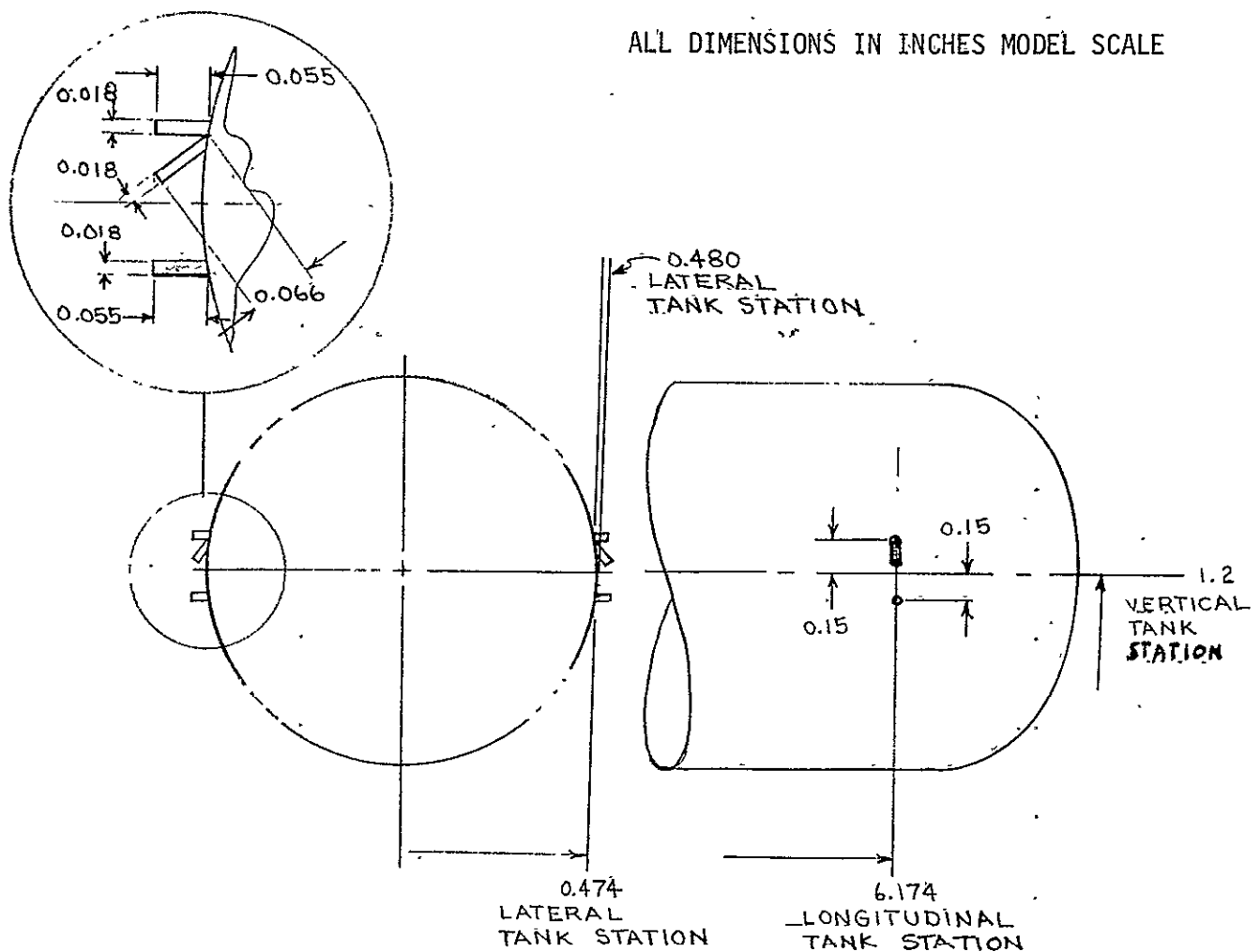


TABLE III. (Continued)

MODEL COMPONENT: LOX VENT LINE FAIRING - PT_T

GENERAL DESCRIPTION: VENT LINE ALONG UPPER RIGHT SIDE OF ET OGIVE NOSE

BEGINNING AT MODEL STATIONS $X_T = 0.927$, $Y_T = 0$, AND $Z_T = 1.2$; TERMINATING AT

$X_T = 2.841$, $Y_T = 0.162$, $Z_T = 1.658$

MODEL SCALE: 0.003

REFERENCE DRAWING: VL78-000031A

<u>DIMENSIONS:</u>	THEORETICAL	
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>638 in.</u>	<u>1.914 in.</u>
Max. Width	<u>17.7 in.</u>	<u>0.053 in.</u>
Max. Depth	<u>9.3 in.</u>	<u>0.028 in.</u>
Radial Position	<u>19 1/2°</u>	<u>19 1/2°</u>

TABLE III. (Continued)

MODEL COMPONENT: LOX FEED LINE - PT₂

GENERAL DESCRIPTION: LONGITUDINAL FUEL LINE ALONG UPPER RIGHT SIDE OF ET

BEGINNING AT MODEL STATIONS $X_T = 2.841$, $-Y_T = 0.194$, AND $Z_T = 1.645$; TERMINATING
AT $X_T = 6.116$, $-Y_T = 0.194$, AND $Z_T = 1.645$

MODEL SCALE: 0.003

REFERENCE DRAWING: VL78-000031A

<u>DIMENSIONS:</u>	<u>THEORETICAL</u>	
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1092 in.</u>	<u>3.275 in.</u>
Max. Width	<u>30.7 in.</u>	<u>0.092 in.</u>
Max. Height	<u>28 in.</u>	<u>0.084 in.</u>
Radial Position	<u>23 1/2°</u>	<u>23 1/2°</u>

TABLE III. (Continued)

MODEL COMPONENT: LH₂ FEED LINE - PT₃GENERAL DESCRIPTION: LONGITUDINAL FUEL LINE ALONG UPPER LEFT SIDE OF ETBEGINNING AT MODEL STATIONS $X_T = 2.841$, $Y_T = 0.275$, AND $Z_T = 1.601$ TERMINATING AT STATIONS $X_T = 6.116$, $Y_T = 0.275$, AND $Z_T = 1.601$ MODEL SCALE: 0.003REFERENCE DRAWING: VL78-000031A

<u>DIMENSIONS:</u>	THEORETICAL	
	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1092 in.</u>	<u>3.275 in.</u>
Max. Width	<u>25.7 in.</u>	<u>0.077 in.</u>
Max. Depth	<u>14.7 in.</u>	<u>0.044 in.</u>
Radial Position	<u>-33°</u>	<u>-33°</u>

TABLE III. (Continued)

MODEL COMPONENT: LOX FEED LINE - FL₁

GENERAL DESCRIPTION: 18-INCH DIAMETER VERTICAL FUEL LINE AT AFT END OF ET ON
RIGHT

MODEL SCALE: 0.003

REFERENCE DRAWING: VL78-000050

ALL DIMENSIONS IN INCHES MODEL SCALE

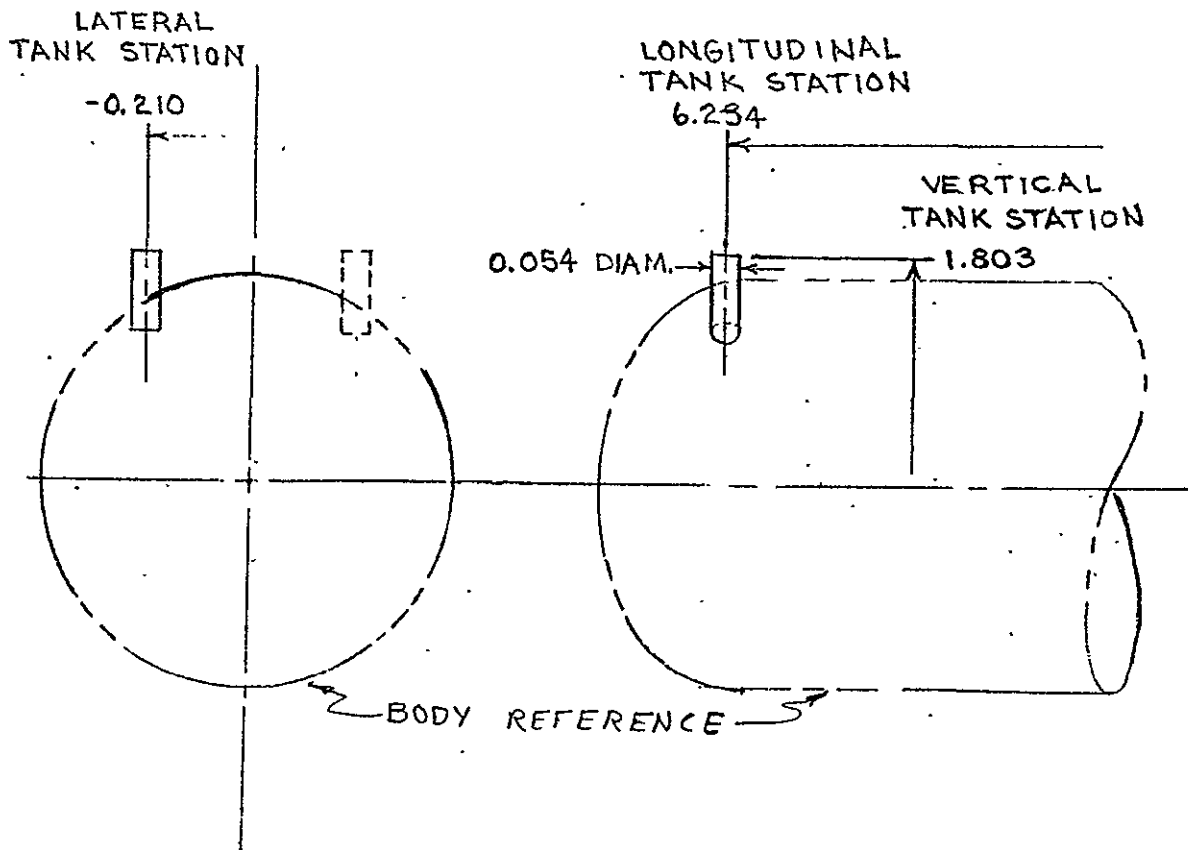


TABLE III. (Continued)

MODEL COMPONENT: LH₂ FEED LINE - FL₂

GENERAL DESCRIPTION: 18-INCH DIAMETER VERTICAL FUEL LINE AT AFT END OF ET

ON LEFT

MODEL SCALE: 0.003

REFERENCE DRAWING: VL78-000050

ALL DIMENSIONS IN INCHES MODEL SCALE

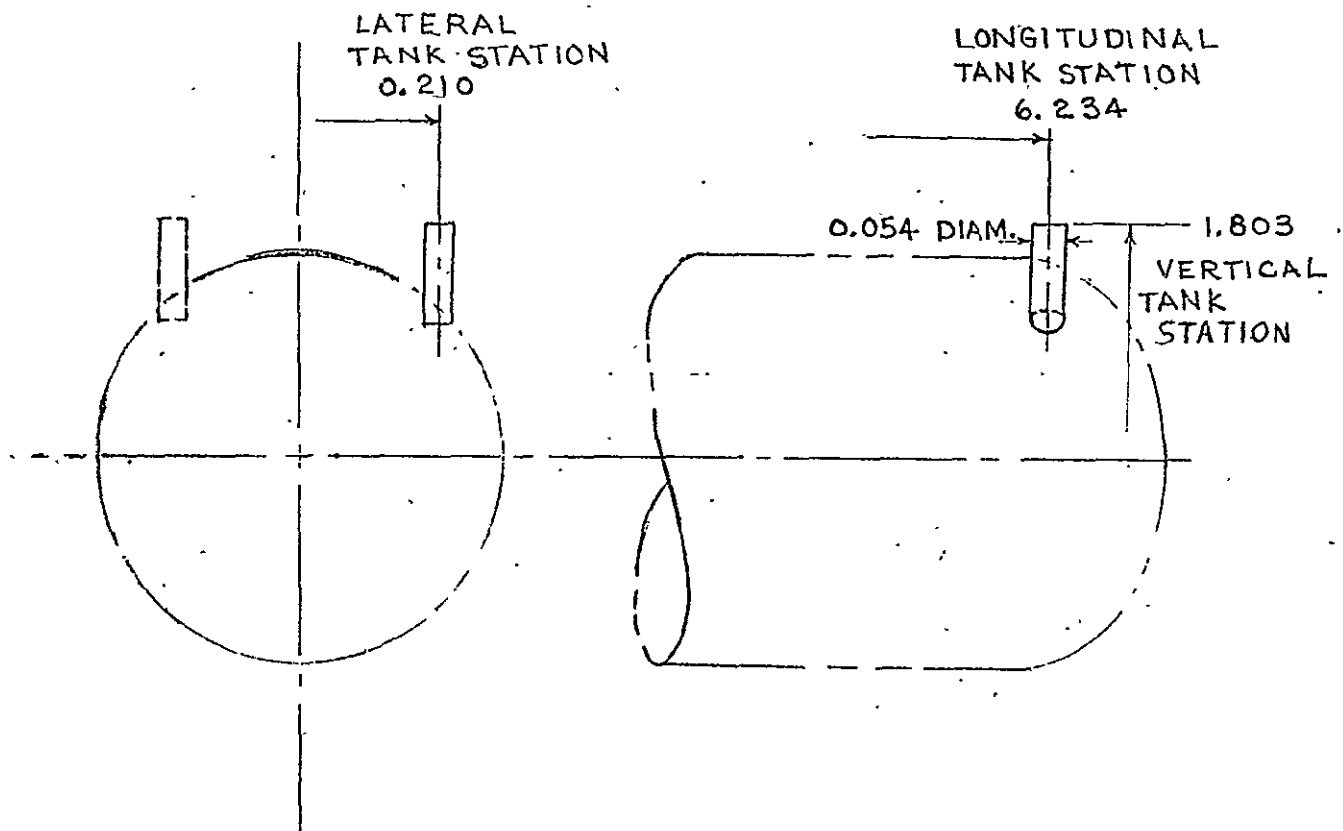


TABLE III. (Concluded)

MODEL COMPONENT: ATTACH STRUCTURE - FR₆

GENERAL DESCRIPTION: AFT ET/ORBITER CROSS MEMBER (CROSS SECTION 11 IN. x 15 IN.)

LOCATED AT ET-STATION 2050.5

MODEL SCALE: 0.003

REFERENCE DRAWING: FIGURE 3, MARTIN MARIETTA MEMO SA-A-74-9

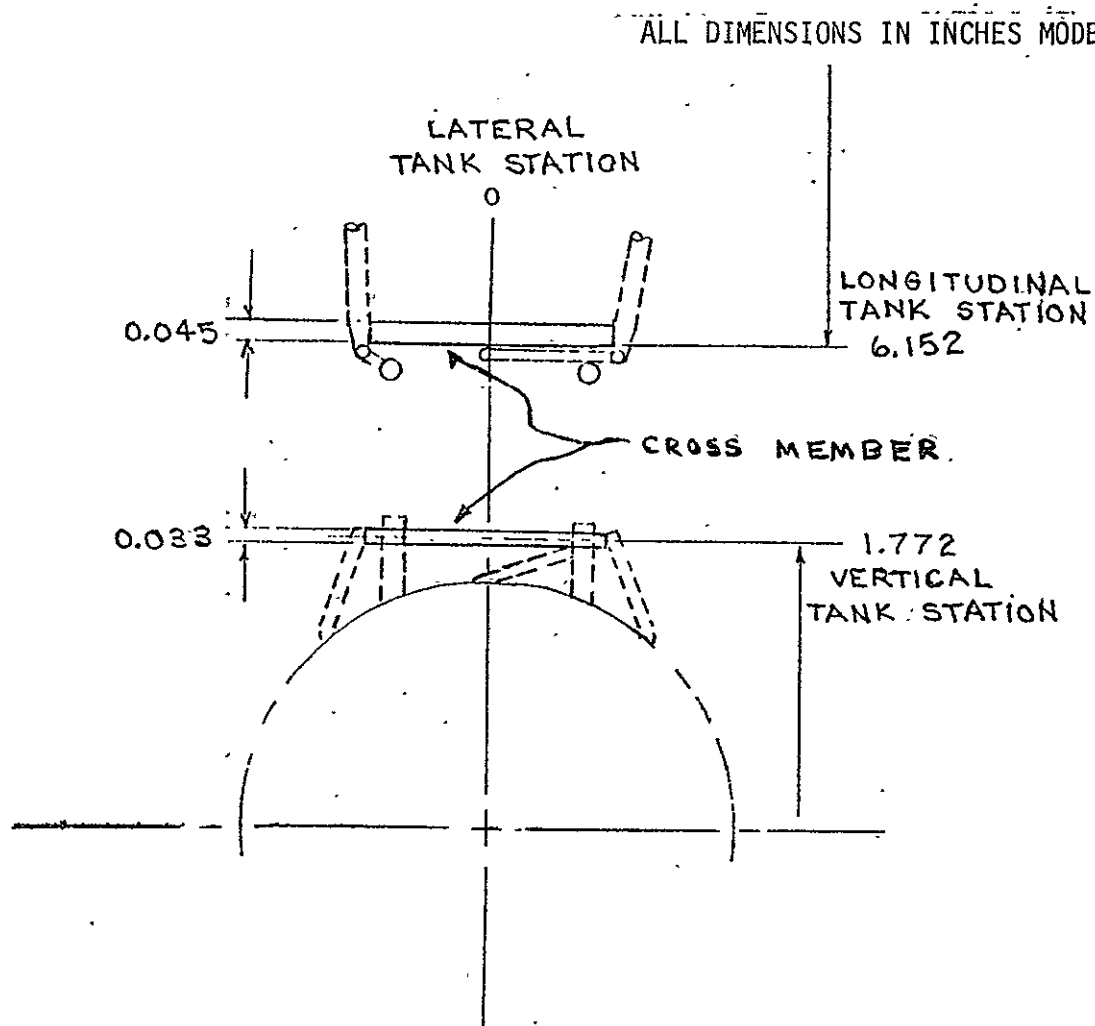


TABLE IV. TABULATED DATA PRINT-OUT FORMAT AND CORRELATION BETWEEN TUBE NUMBER, ORIFICE NUMBER, AND ORIFICE LOCATION ON MODEL

SIDE-MOUNTED ET (T₂ CONFIGURATION)

*inoperable orifice

X/B LONG. STA. X (In.) LONG STA. NO. RADIAL ROW NO. RADIAL LOCATION θ (deg.)		0.055	0.108	0.162	0.216	0.322	0.518	0.610	0.735	0.860	0.892	0.923	0.954
		0.305	0.605	0.905	1.205	1.800	2.900	3.410	4.110	4.810	4.985	5.160	5.335
		1	2	3	4	5	6	7	8	9	10	11	12
0	A	1	2	3	4	5	*6	*7	8	9	10	11	12
14	B	X	13	14	15	16	*17	*18	19	20	21	22	23
24	C	X	X	X	X	X	X	X	X	24	25	26	27
45	D	28	29	30	31	32	33	34	35	36	37	38	39
67½	E	X	40	41	42	43	44	45	46	47	48	49	50
90	F	51	52	53	54	55	56	57	58	59	60	61	62
112½	G	X	63	64	65	66	67	68	69	70	71	72	73
135	H	74	75	76	77	78	79	80	81	82	83	84	85
157½	I	X	86	87	88	89	90	91	92	93	94	95	96
180	J	97	98	99	100	101	102	103	104	105	106	107	108
202½	K	X	109	110	111	112	113	114	115	116	117	118	119
225	L	120	121	122	123	124	125	126	127	128	129	130	131
247½	M	X	132	133	134	135	136	137	138	139	140	141	142
270	N	143	144	145	146	147	148	149	150	151	152	153	154
292½	O	X	155	156	157	158	159	160	161	162	163	164	165
315	P	166	167	168	169	170	171	172	173	174	175	176	177
326	Q	X	X	X	X	X	X	X	X	178	179	180	181
346	R	X	182	183	184	185	*186	*187	188	189	190	191	192

TABLE IV. TABULATED DATA PRINT-OUT FORMAT AND CORRELATION BETWEEN TUBE NUMBER, ORIFICE NUMBER,
AND ORIFICE LOCATION ON MODEL (CONCLUDED)

SIDE-MOUNTED ET (T_2 CONFIGURATION)

* inoperable orifice

X/L LONG. STA. X (in.) LONG. STA. No. CIRCUM. ROW CIRCUM. STA. θ (deg.)		0.055	0.108	0.162	0.216	0.322	0.518	0.610	0.735	0.860	0.892	0.923	0.954
		0.305	0.605	0.905	1.205	1.800	2.900	3.410	4.110	4.810	4.985	5.160	5.335
		1	2	3	4	5	6	7	8	9	10	11	12
0	A	1	2	3	4	5	* 6	* 7	8	9	10	11	12
14	B	X	13	14	15	16	* 17	* 18	19	20	21	22	23
24	C	X	X	X	X	X	X	X	X	24	25	26	27
45	D	28	29	30	31	32	33	34	35	36	37	38	39
67½	E	X	40	41	42	43	44	45	46	47	48	49	50
90	F	51	52	53	54	55	56	57	58	59	60	61	62
112½	G	X	63	64	65	66	67	68	69	70	71	72	73
135	H	74	75	76	77	78	79	80	81	82	83	84	85
157½	I	X	86	87	88	89	90	91	92	93	94	95	96
180	J	97	98	99	100	101	102	103	104	105	106	107	108
202½	K	X	109	110	111	112	113	114	115	116	117	118	119
225	L	120	121	122	123	124	125	126	127	128	129	130	131
247½	M	X	132	133	134	135	136	137	138	139	140	141	142
270	N	143	144	145	146	147	148	149	150	151	152	153	154
292½	O	X	155	156	157	158	159	160	161	162	163	164	165
315	P	166	167	168	169	170	171	172	173	174	175	176	177
326	Q	X	X	X	X	X	X	X	X	178	179	180	181
346	R	X	182	183	184	185	* 186	* 187	188	189	190	191	192

TABLE V. TABULATED DATA PRINT-OUT FORMAT AND CORRELATION BETWEEN TUBE NUMBER, ORIFICE NUMBER,
AND ORIFICE LOCATION ON MODEL

TAIL-MOUNTED ET (T₁ CONFIGURATION)

inoperable orifice

X/B LONG. STA. X (in.) LONG. STA. NO. RADIAL ROW NO. RADIAL LOCATION θ (deg.)		0.055	0.108	0.162	0.216	0.322	0.518	0.610	0.735	0.860	0.892	0.923	0.954
		0.305	0.605	0.905	1.205	1.800	2.900	3.410	4.110	4.810	4.985	5.160	5.335
		1	2	3	4	5	6	7	8	9	10	11	12
0	A	1	2	3	4	5	6	7	8	9	10	11	12
14	B	X	13	14	15	16	17	18	19	20	21	22	23
24	C	X	X	X	X	X	X	X	X	24	25	26	27
45	D	28	29	30	31	32	33	34	35	36	37	38	39
67½	E	X	40	41	42	43	44	45	46	47	48	49	50
90	F	51	52	53	54	*55	56	57	58	59	60	61	62
112½	G	X	63	64	65	66	67	68	69	70	71	72	73
135	H	74	75	76	77	78	79	80	81	*82	83	84	85
157½	I	X	86	87	88	89	90	91	92	93	94	95	96
180	J	97	98	99	100	101	102	103	104	105	106	107	108
202½	K	X	109	110	111	112	113	114	115	116	117	118	119
225	L	120	121	122	123	124	125	126	127	128	129	130	131
247½	M	X	132	133	134	135	136	137	138	139	140	141	142
270	N	143	144	145	146	*147	148	149	150	151	152	153	154
292½	O	X	155	156	157	158	159	160	161	162	163	164	165
315	P	166	167	168	169	170	171	172	173	174	175	176	177
326	Q	X	X	X	X	X	X	X	X	178	179	180	181
346	R	X	182	183	184	185	186	187	188	189	190	191	192

TABLE V. TABULATED DATA PRINT-OUT FORMAT AND CORRELATION BETWEEN TUBE NUMBER, ORIFICE NUMBER, AND ORIFICE LOCATION ON MODEL (CONCLUDED)

TAIL-MOUNTED ET (T_1 CONFIGURATION)

* inoperable orifice

X/L LONG. STA. X (in.) LONG. STA. No. CIRCUM. STA. CIRCUM. STA. No. (deg.)		0.055	0.108	0.162	0.216	0.322	0.518	0.610	0.735	0.860	0.892	0.923	0.954
		0.305	0.605	0.905	1.205	1.800	2.900	3.410	4.110	4.810	4.985	5.160	5.335
		1	2	3	4	5	6	7	8	9	10	11	12
0	A	1	2	3	4	5	6	7	8	9	10	11	12
14	B	X	13	14	15	16	17	18	19	20	21	22	23
24	C	X	X	X	X	X	X	X	X	24	25	26	27
45	D	28	29	30	31	32	33	34	35	36	37	38	39
67½	E	X	40	41	42	43	44	45	46	47	48	49	50
90	F	51	52	53	54	* 55	56	57	58	59	60	61	62
112½	G	X	63	64	65	66	67	68	69	70	71	72	73
135	H	74	75	76	77	78	79	80	81	* 82	83	84	85
157½	I	X	86	87	88	89	90	91	92	93	94	95	96
180	J	97	98	99	100	101	102	103	104	105	106	107	108
202½	K	X	109	110	111	112	113	114	115	116	117	118	119
225	L	120	121	122	123	124	125	126	127	128	129	130	131
247½	M	X	132	133	134	135	136	137	138	139	140	141	142
270	N	143	144	145	146	* 147	148	149	150	151	152	153	154
292½	O	X	155	156	157	158	159	160	161	162	163	164	165
315	P	166	167	168	169	170	171	172	173	174	175	176	177
326	Q	X	X	X	X	X	X	X	X	178	179	180	181
346	R	X	182	183	184	185	186	187	188	189	190	191	192

Table VI.
0.003-SCALE 324-INCH ET REFERENCE DIMENSIONS

DIMENSION	FULL SCALE	MODEL SCALE
Reference Area, S_{ref} (cross-sectional area of ET)	572.555 FT ²	0.742 IN. ²
Reference Length, l_{ref} (ET diameter)	324 IN.	0.972 IN.
Reference Span, b_{ref} (ET diameter)	324 IN.	0.972 IN.
Moment Reference Point, MRP (dry weight c.g.)		
XMRP (from nose)	1086.4 IN.	3.259 IN.
YMRP	0	0
ZMRP (model centerline)	400 IN.	1.2 IN.
Base Area, A_b (cross-sectional area of ET)	572.555 FT ²	0.742 IN. ²

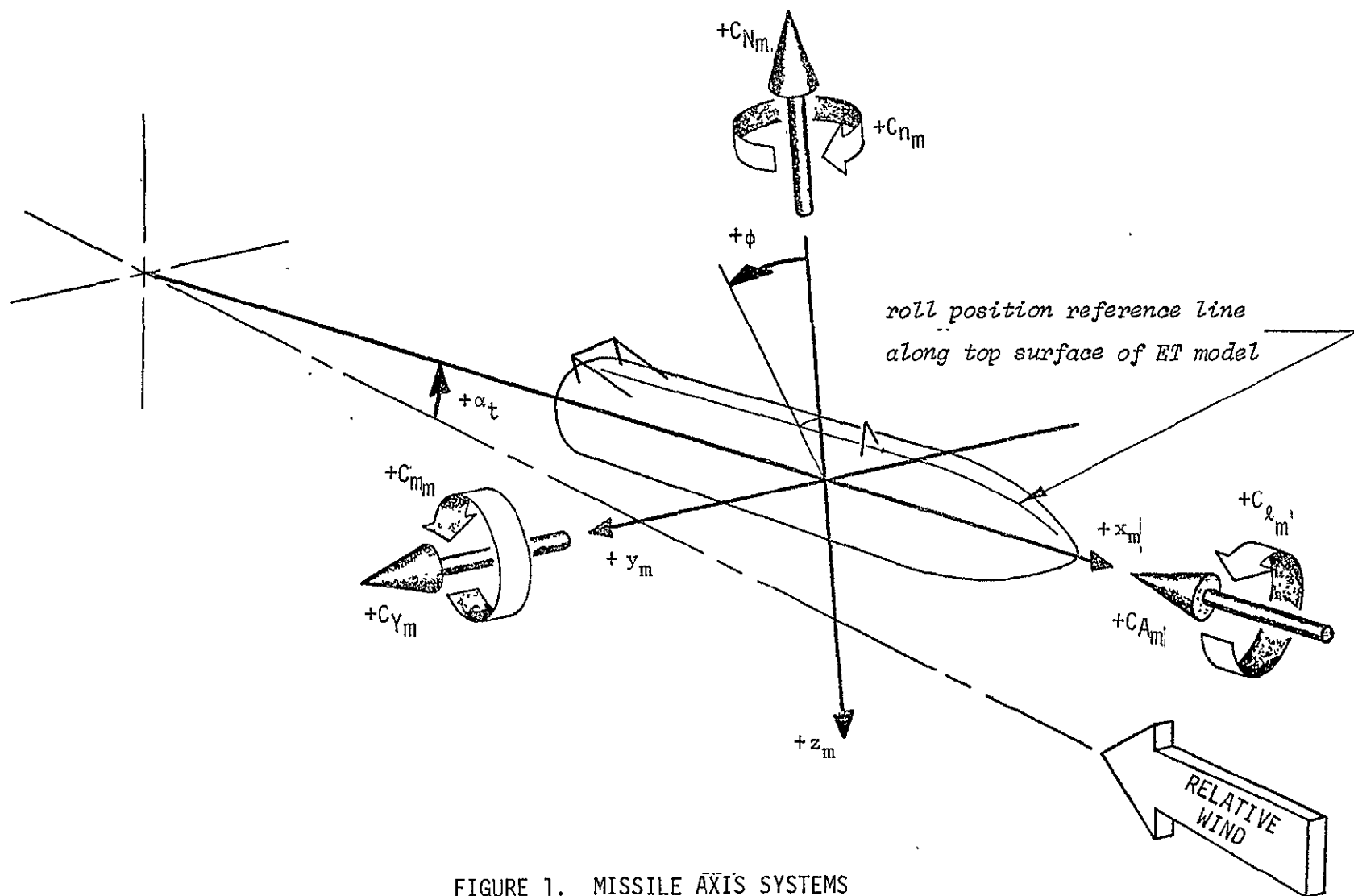
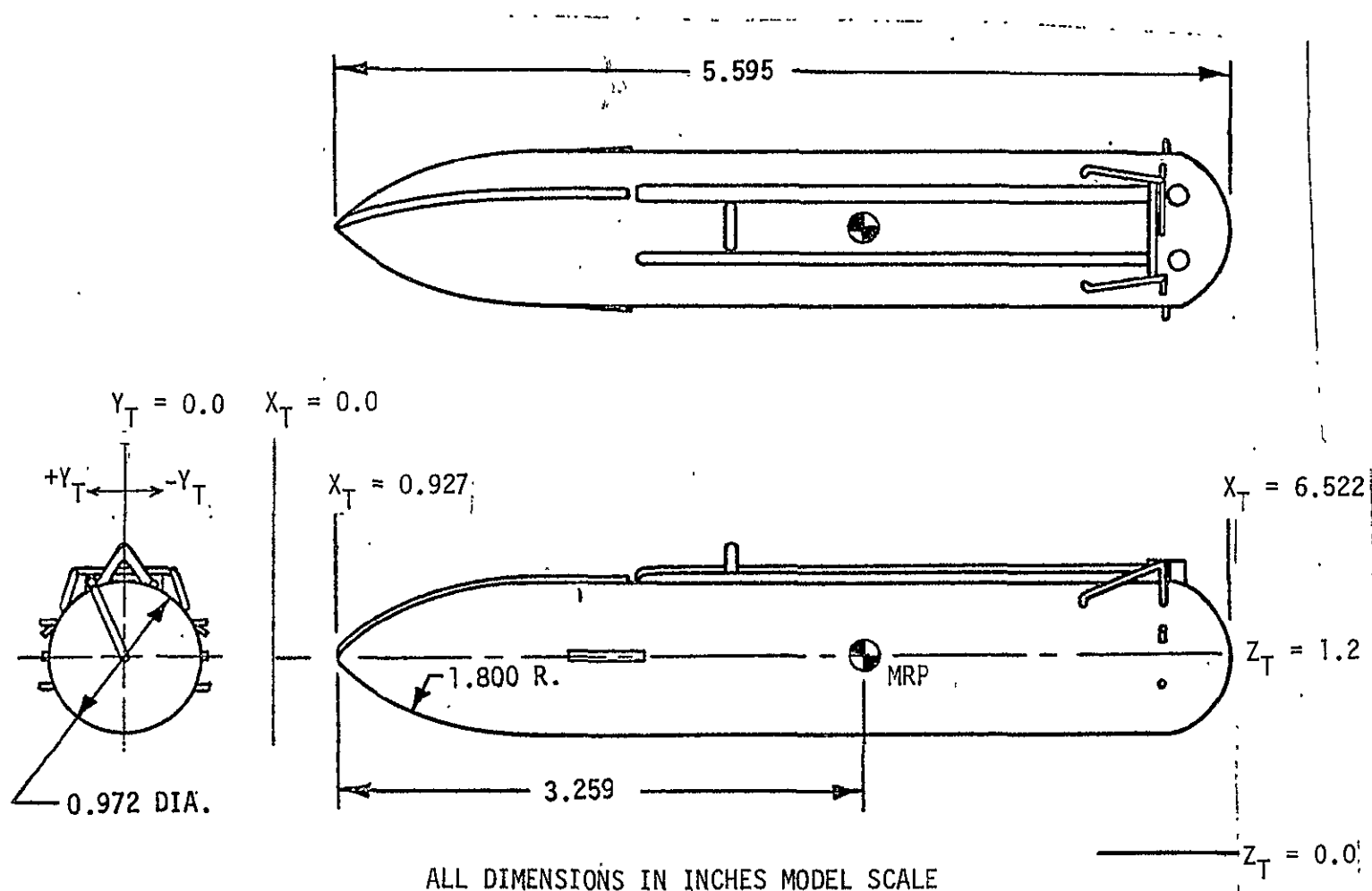
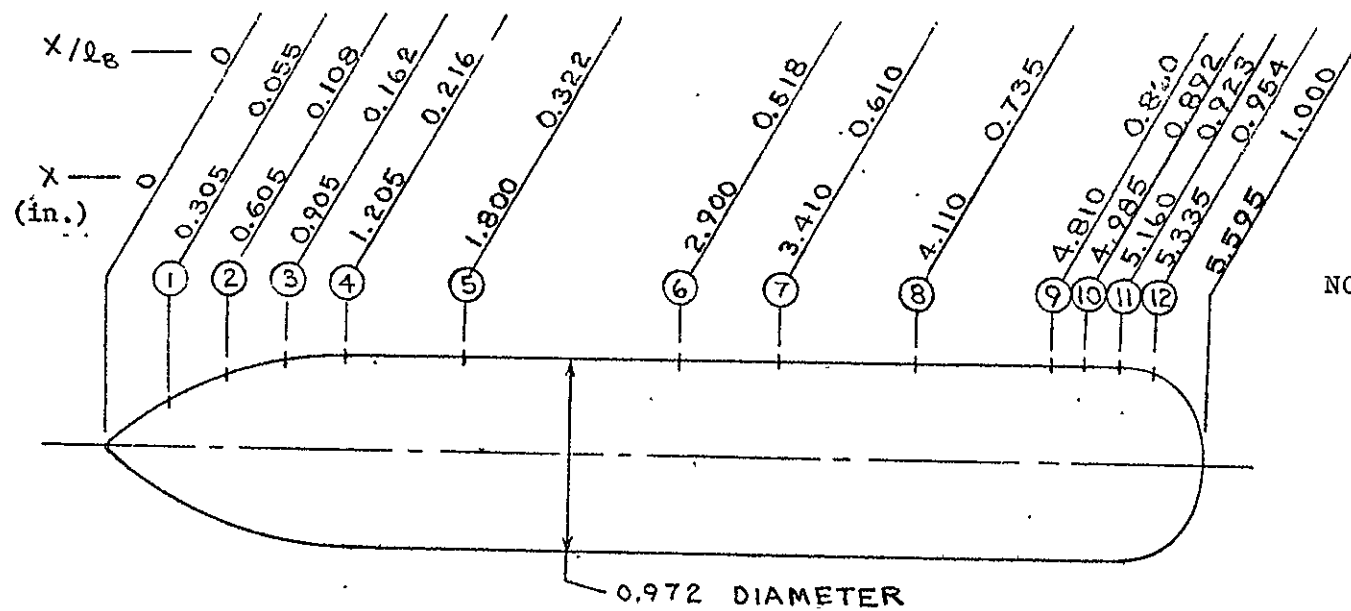


FIGURE 1. MISSILE AXIS SYSTEMS



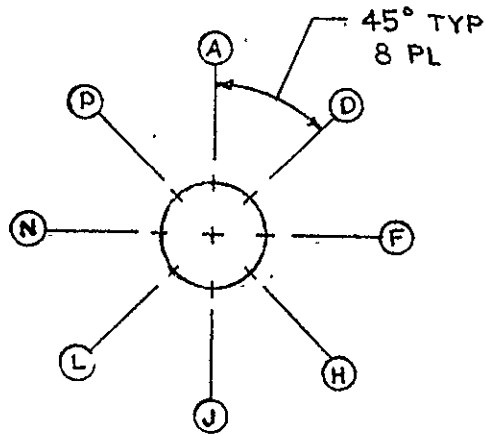
a. GENERAL ARRANGEMENT OF MSFC MODEL NO. 460, CONFIGURATION T₁ EXTERNAL TANK WITH PROTUBERANCES
Figure 2. MODEL SKETCHES



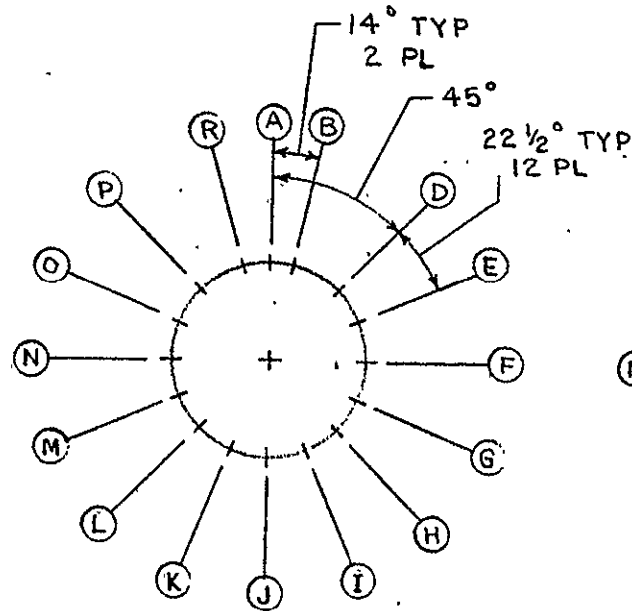
NOTE: ○ Denotes longitudinal and radial location of orifices. (192 total, though some may be missing due to sting cavities or protuberances.)

ALL SECTIONS
LOOKING AFT

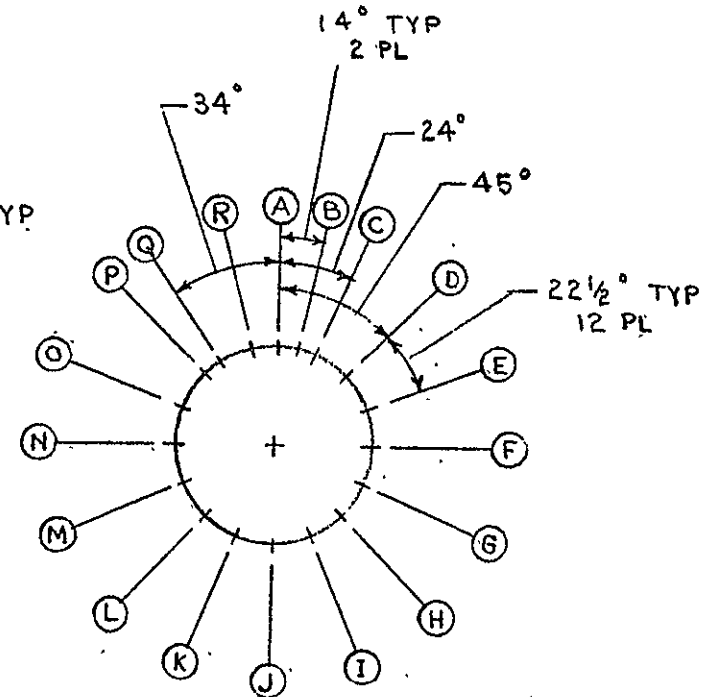
48



STATION 1



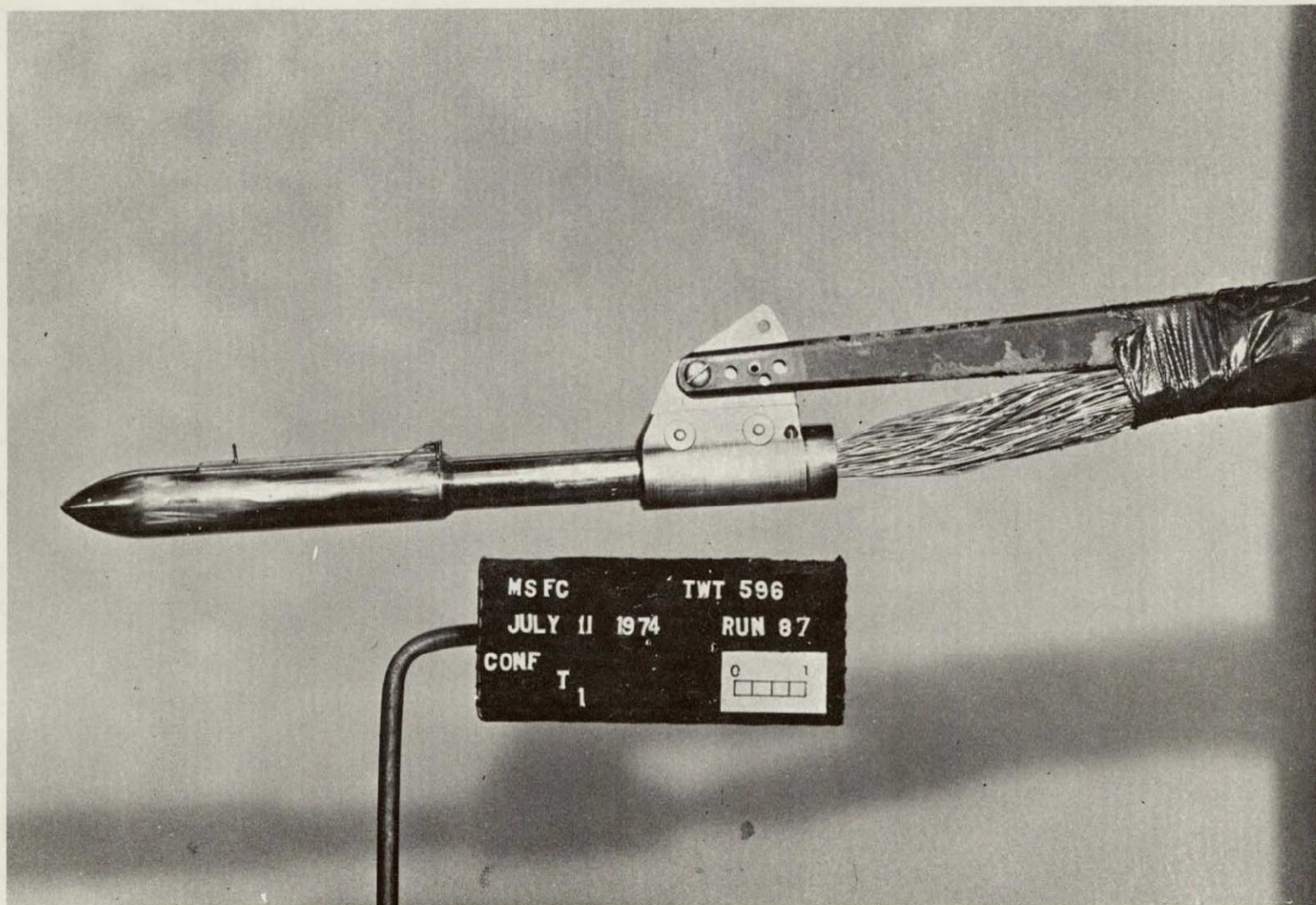
STATIONS 2 THRU 8



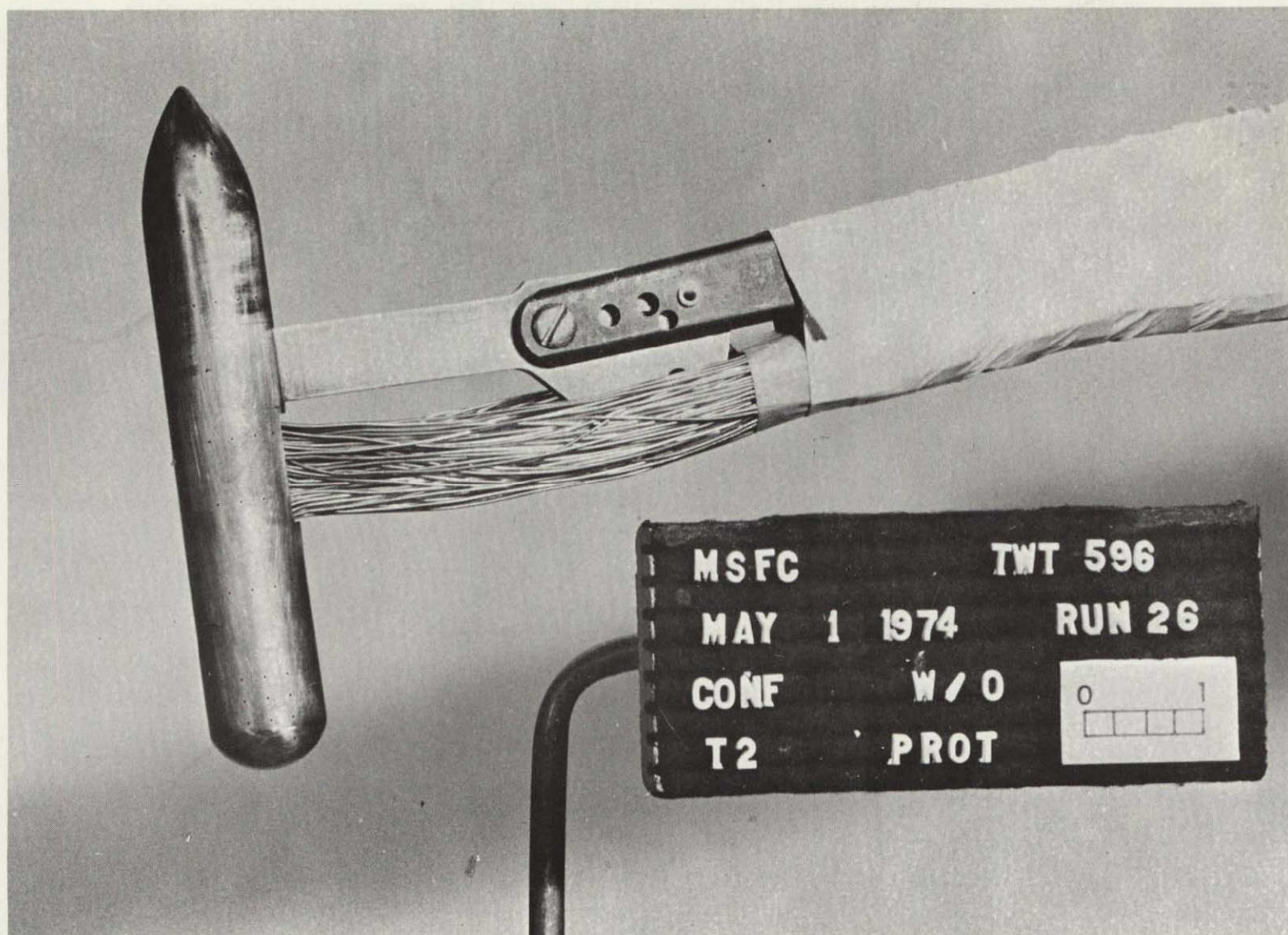
STATIONS 9 THRU 12

b. EXTERNAL TANK MODEL PRESSURE ORIFICE LOCATIONS

Figure 2. CONCLUDED



EXTERNAL TANK MODEL NO. 460, CONFIGURATION T₁ TAIL-MOUNTED WITH PROTUBERANCES
Figure 3. MODEL PHOTOGRAPHS



b. EXTERNAL TANK MODEL NO. 460, CONFIGURATION T₂ SIDE-MOUNTED WITHOUT PROTUBERANCES
Figure 2. CONCLUDED

DATA FIGURES

VOLUME 1--Pages	1-720
VOLUME 2--Pages	721-1200
VOLUME 3--Pages	1201-2000
VOLUME 4--Pages	2001-2740

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-8.380	1.960	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	.000
	.162						

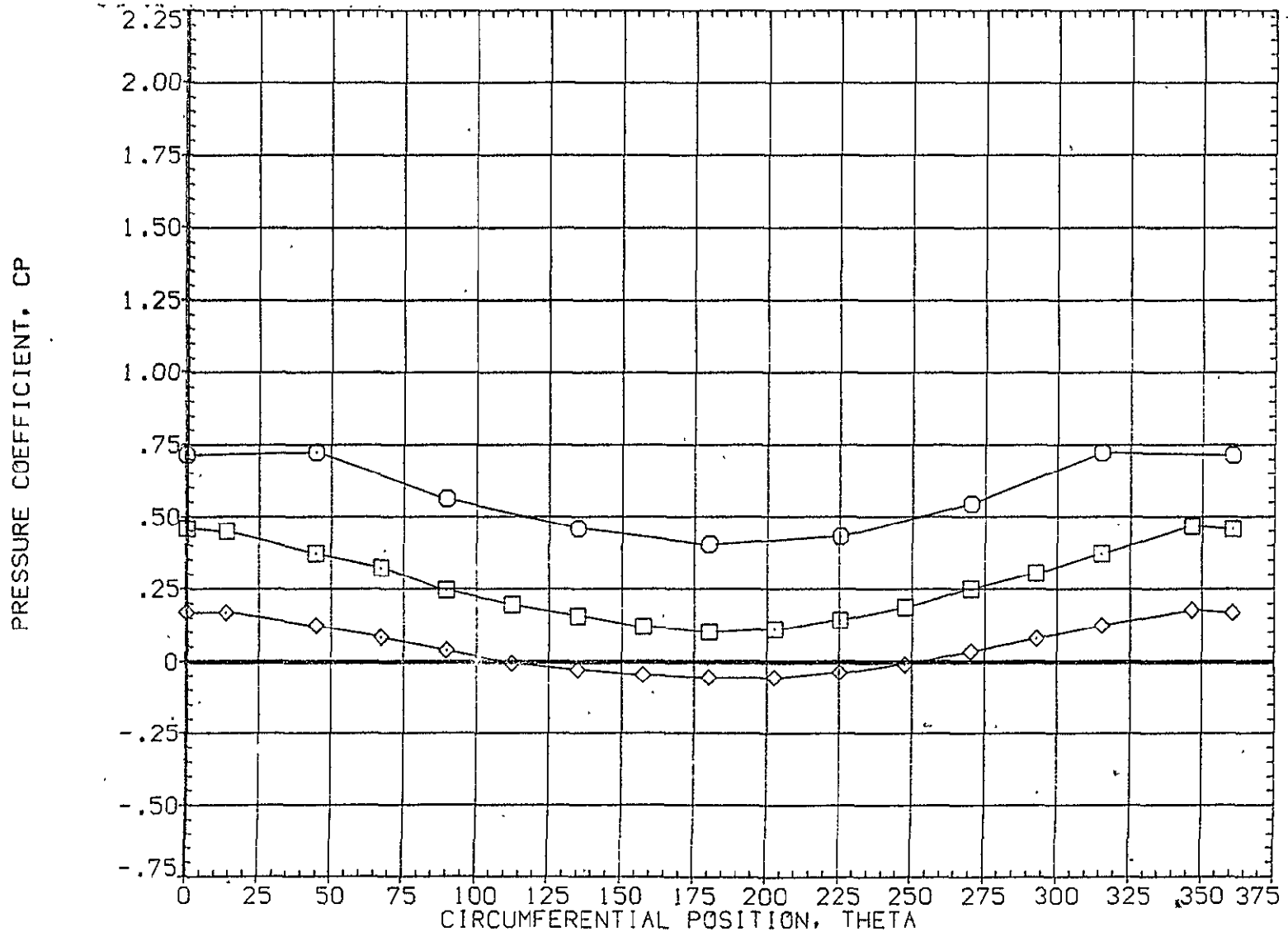


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.216	-8.380	1.960	BETA	.000	OFFSET	.000
□	.322			MOUNT	1.000	PHI	.000
◇	.518						

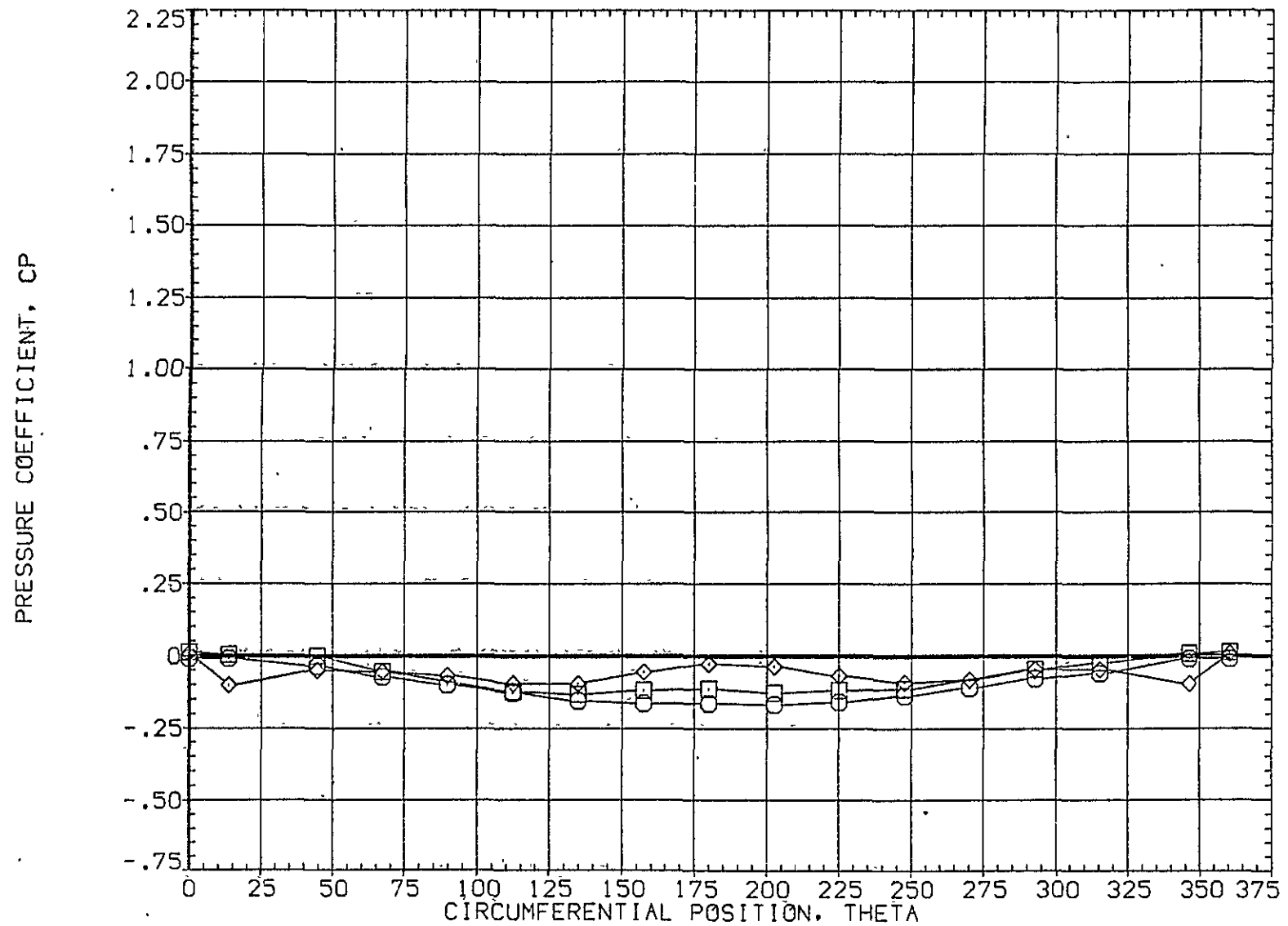


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A001)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-8.380	1.960	MOUNT	.000	PHI	.000
□	.735				1.000		.000
◇	.860						

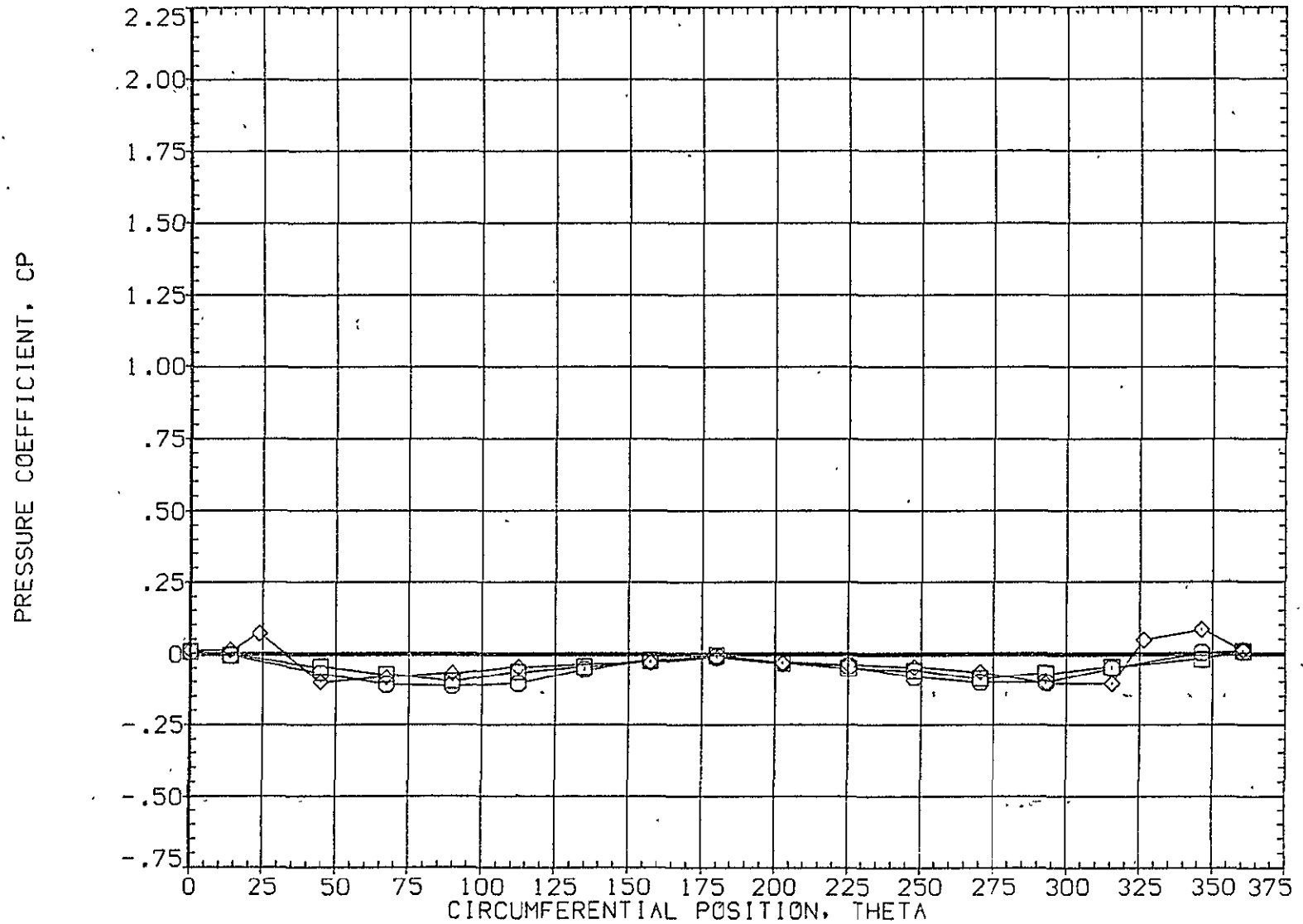


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	-8.380	1.960	.000	1.000	PHI	.000
□	.923						
◇	.954						

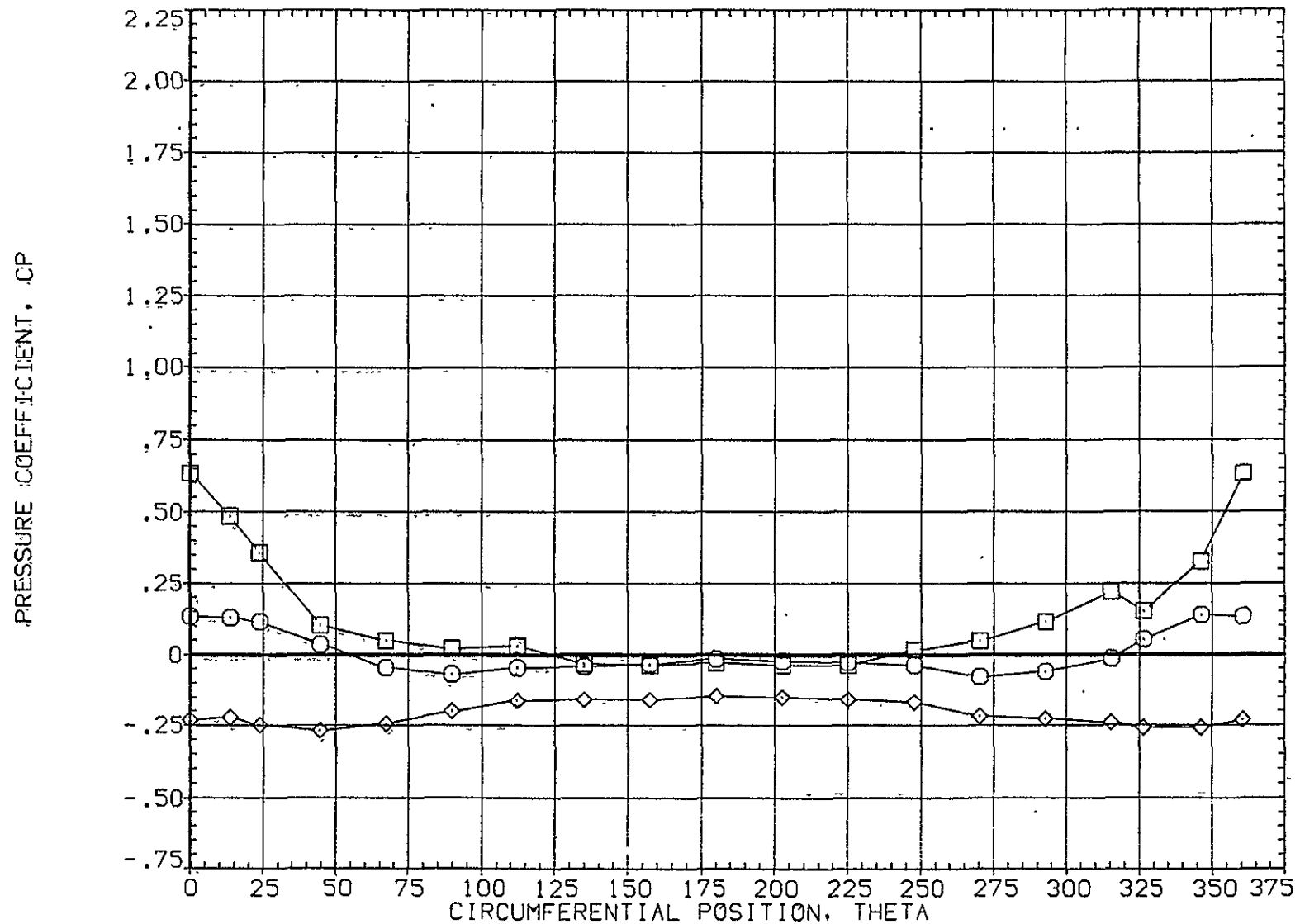


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A002)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-4.330	1.960	MOUNT	.000	PHI	.000
□	.108				1.000		.000
◇	.162						

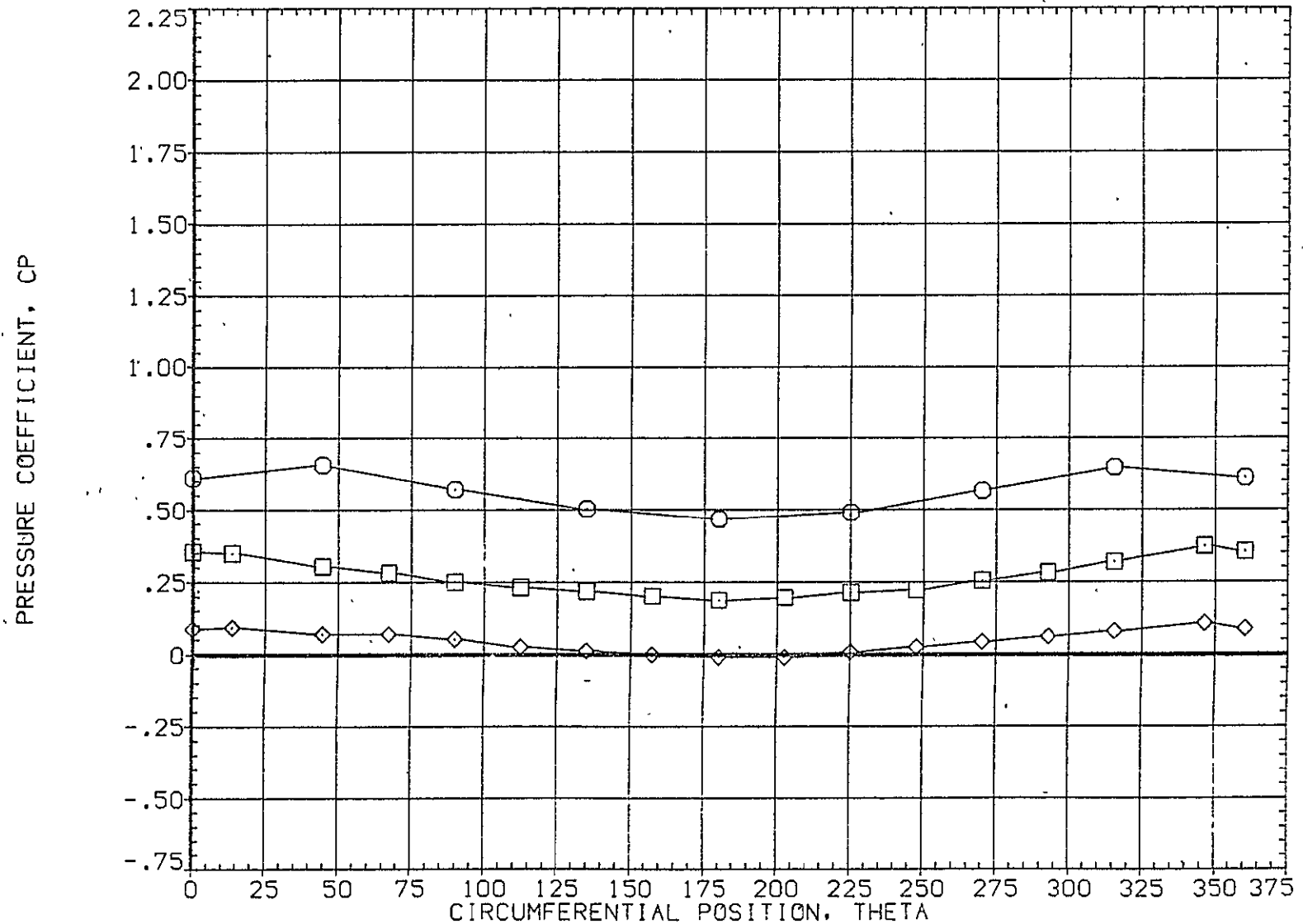


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-4.330	1.960	.000	.000	.000
□	.322			1.000	PHI	.000
◇	.518					

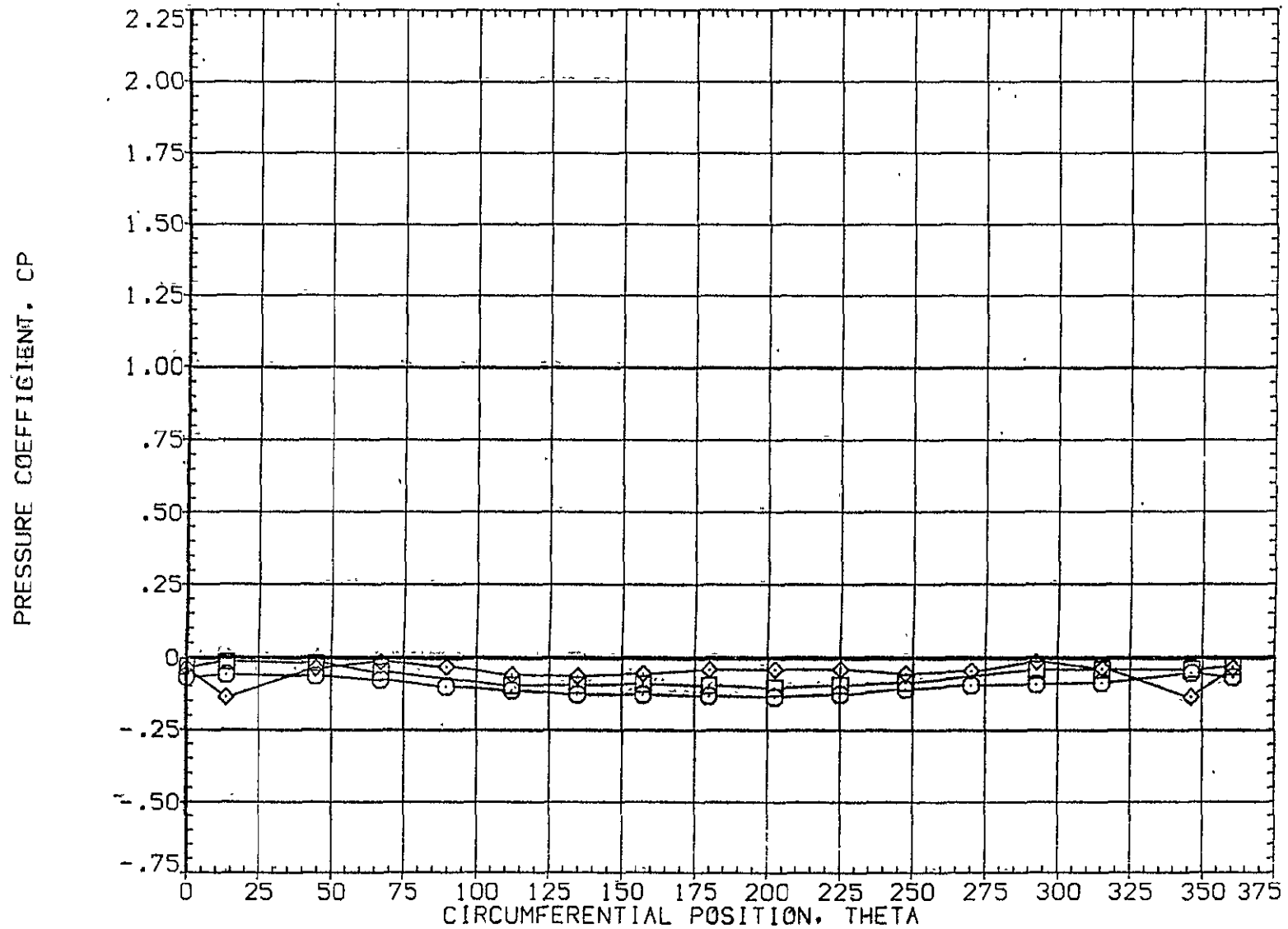


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A002)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 .000
○	.610	-4.330	1.960			
□	.735					
◇	.860					

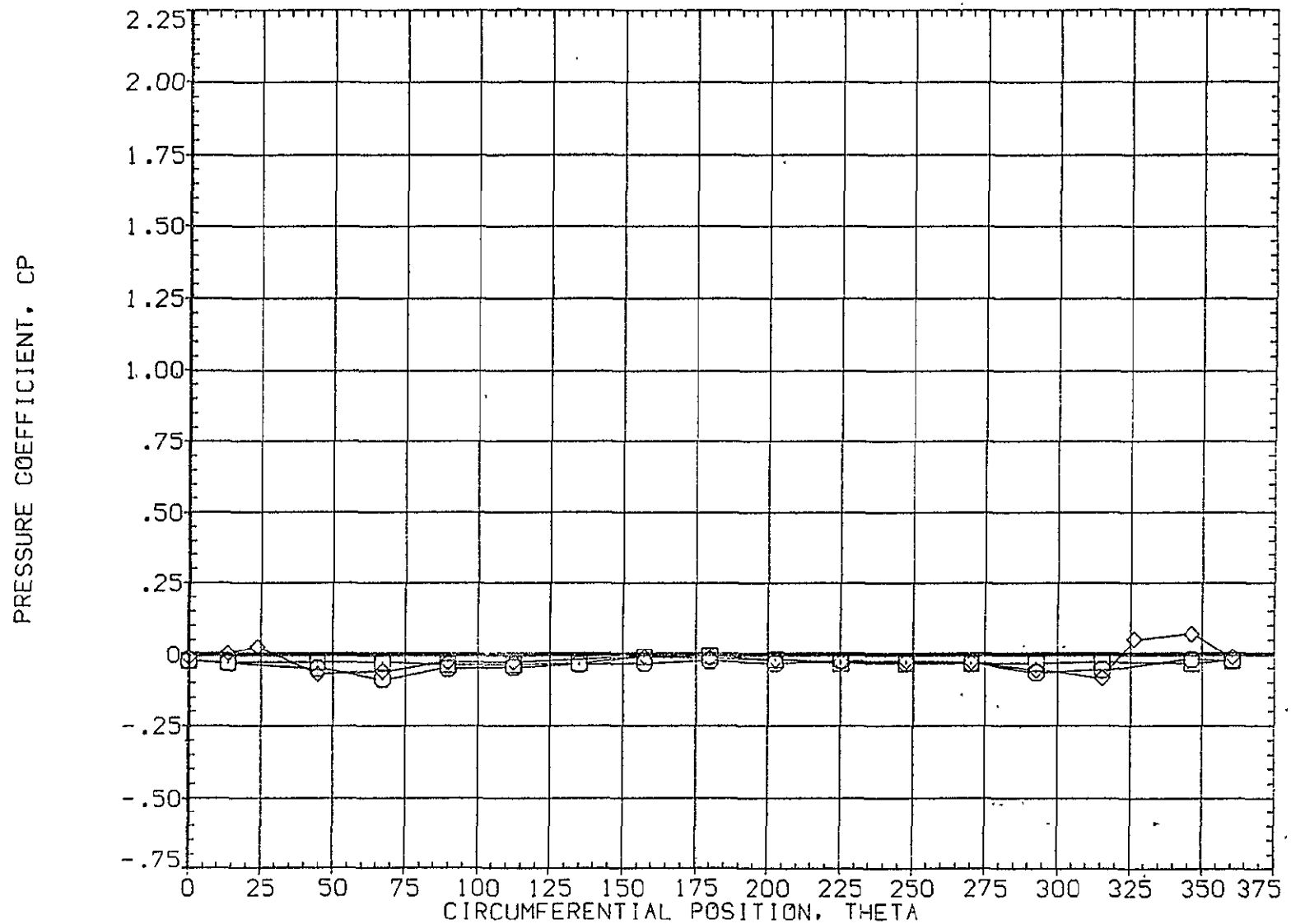


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES.

SYMBOL

○
□
◇

X/LB

ALPHA

MACH

.892

-4.330

1.960

PARAMETRIC VALUES

BETA

.000

OFFSET

.000

MOUNT

1.000

PHI

.000

PRESSURE COEFFICIENT, CP

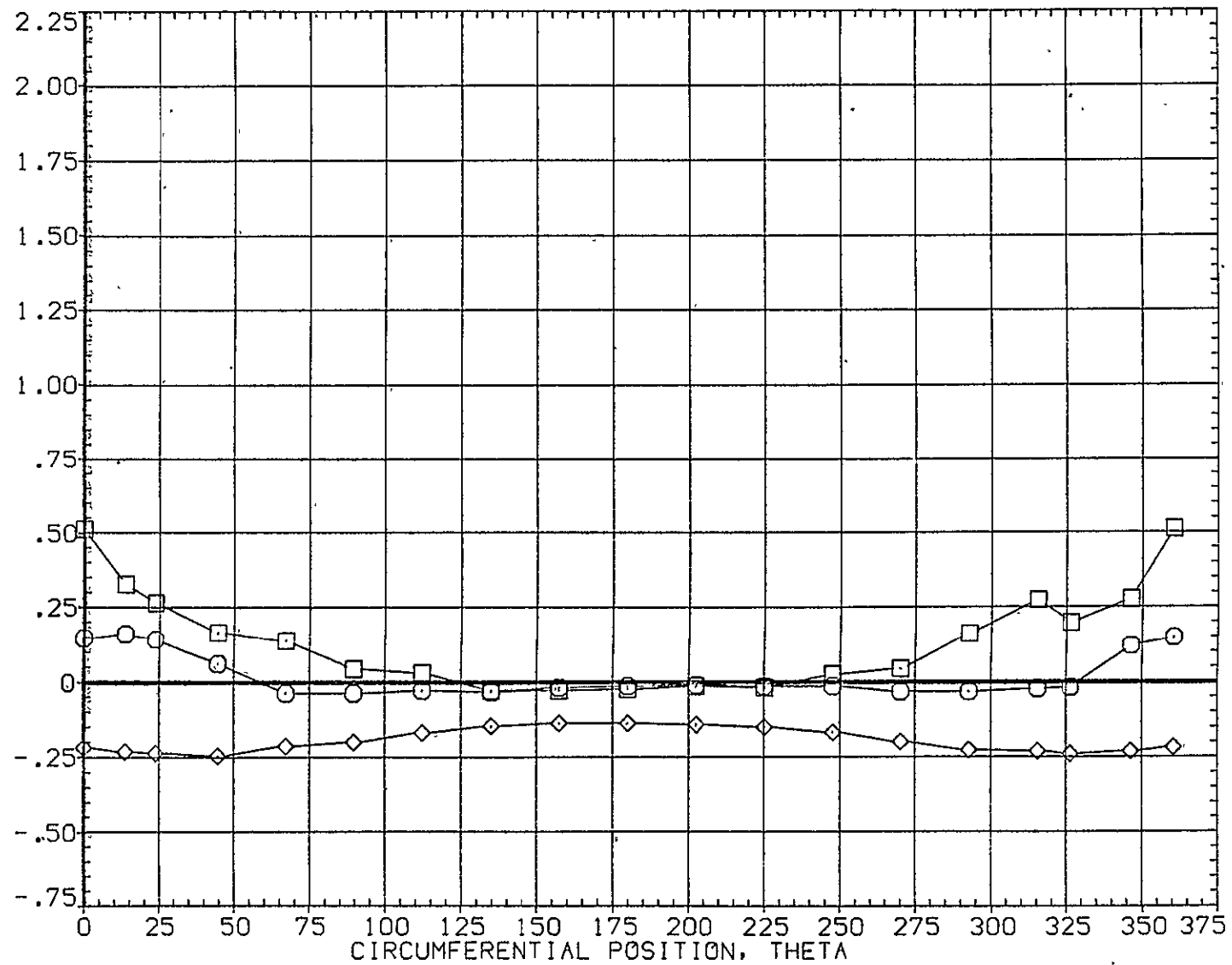


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1 (P1A003)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-.280	1.960	MOUNT	.000	.000	
□	.108				1.000	PHI	.000
◇	.162						

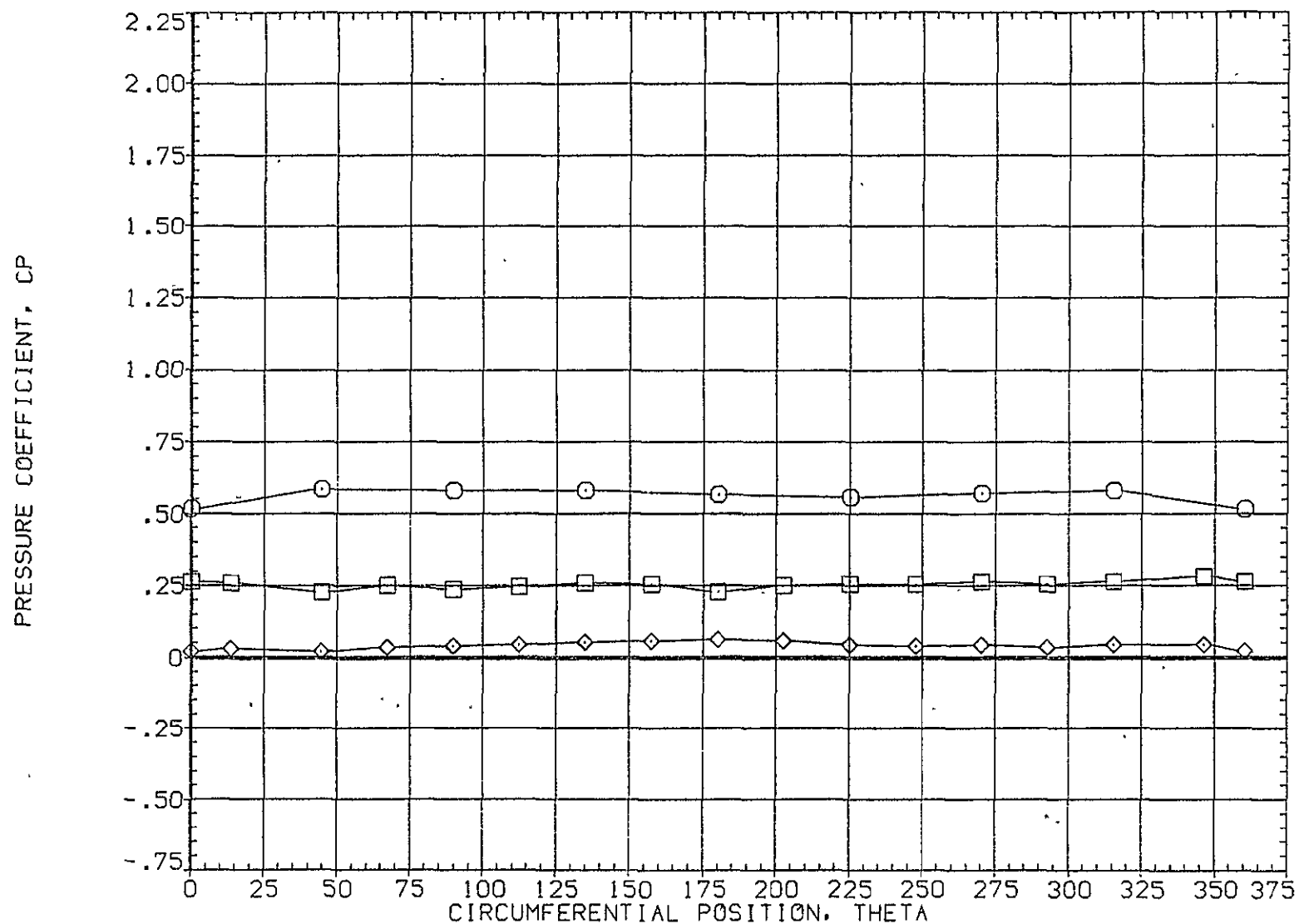


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-.280	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	.000

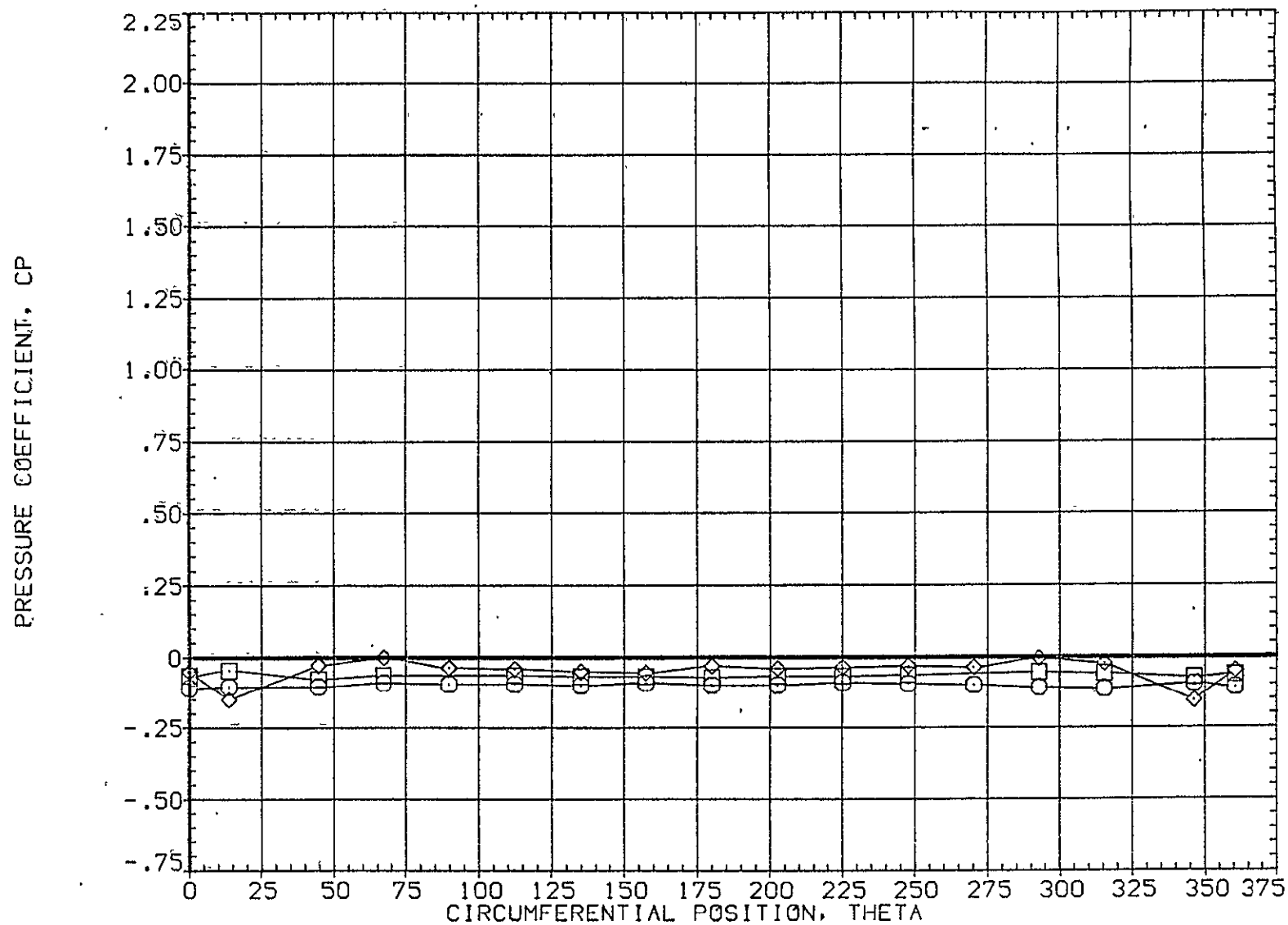


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A003)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	.280	1.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	.000
◇	.860						

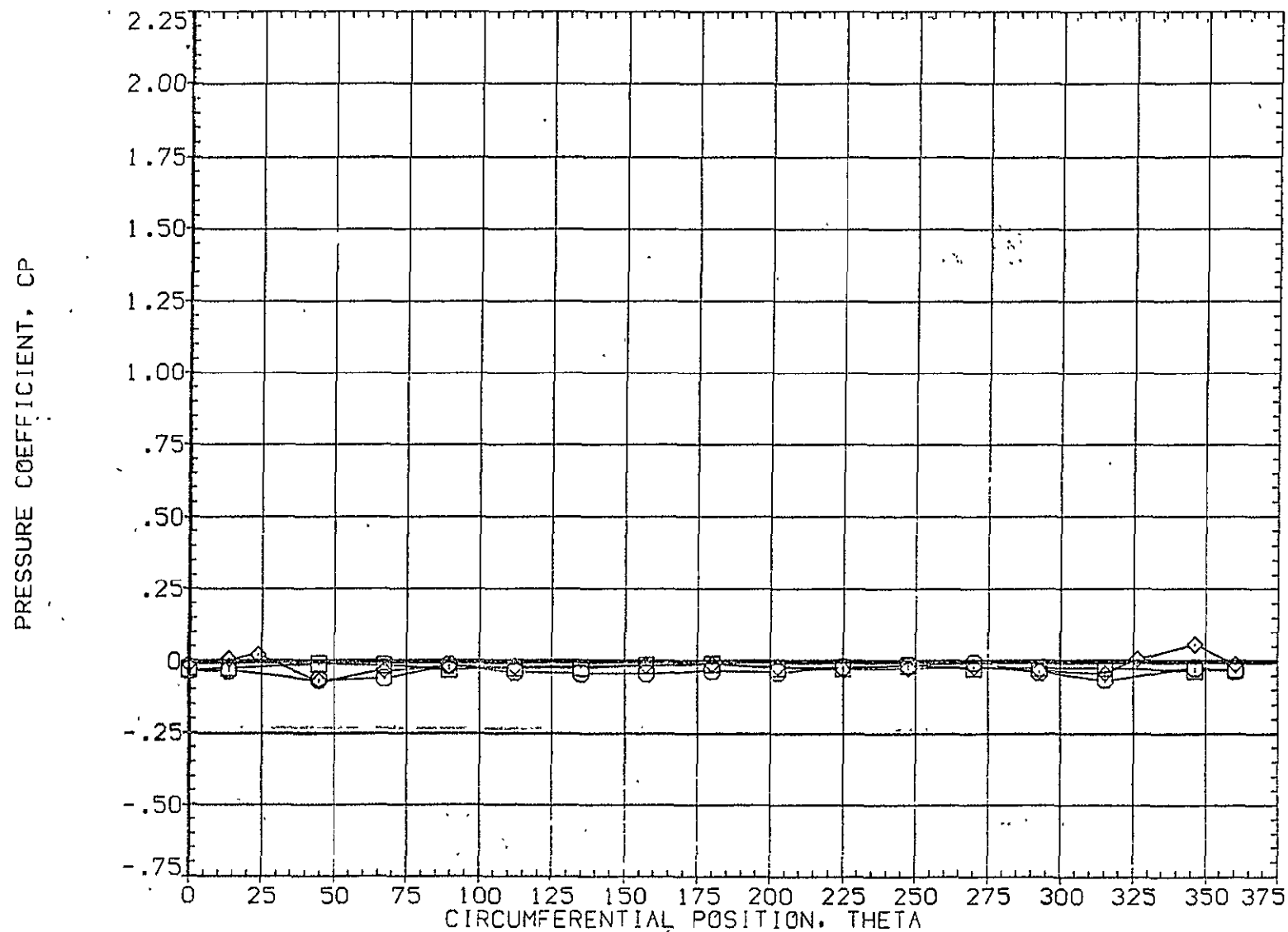


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	-.280	1.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	.000
1.000		.000

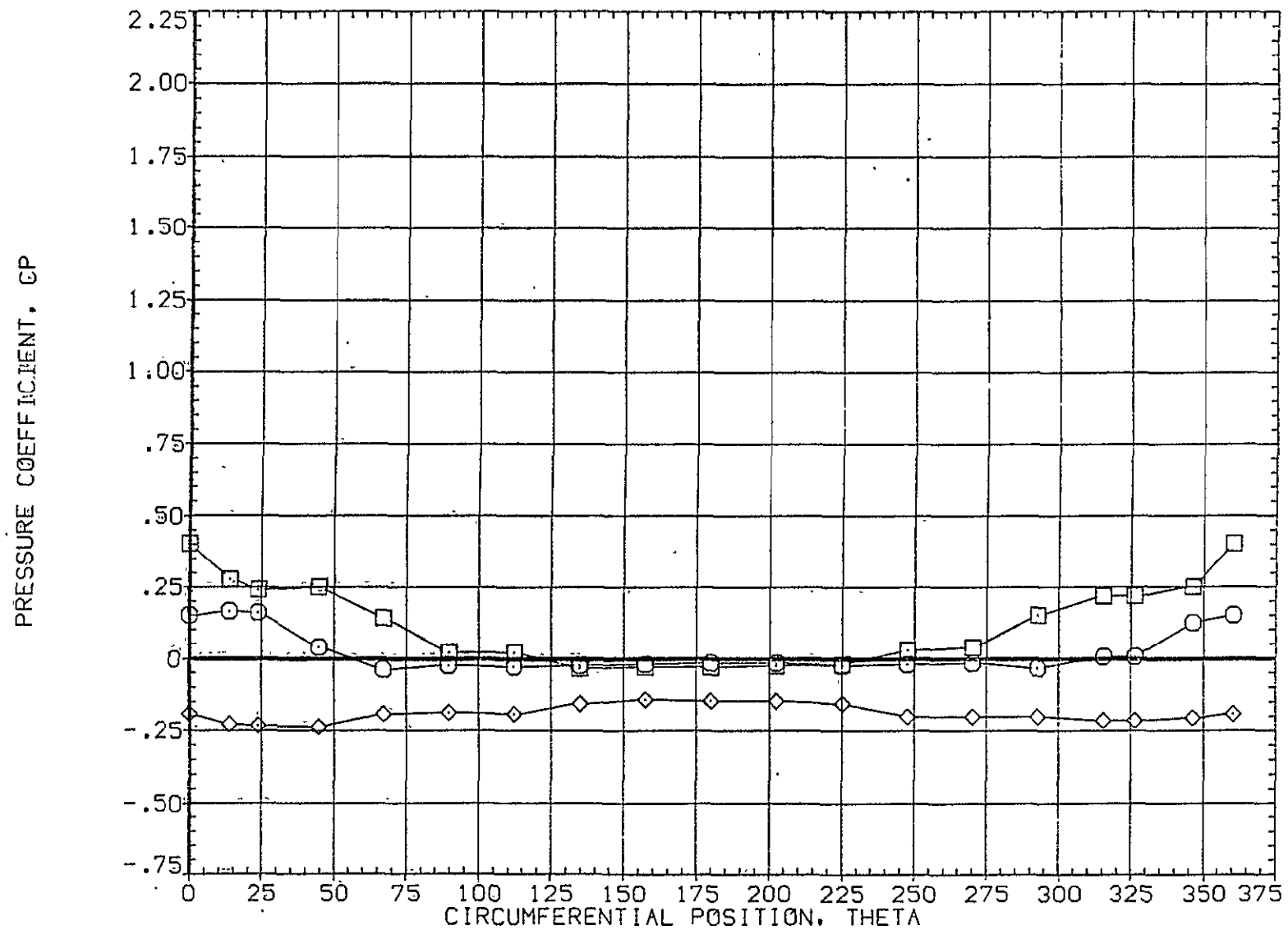


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A004)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	VALUES
○	.055	3.790	1.960			.000
□	.108					.000
◇	.162					.000

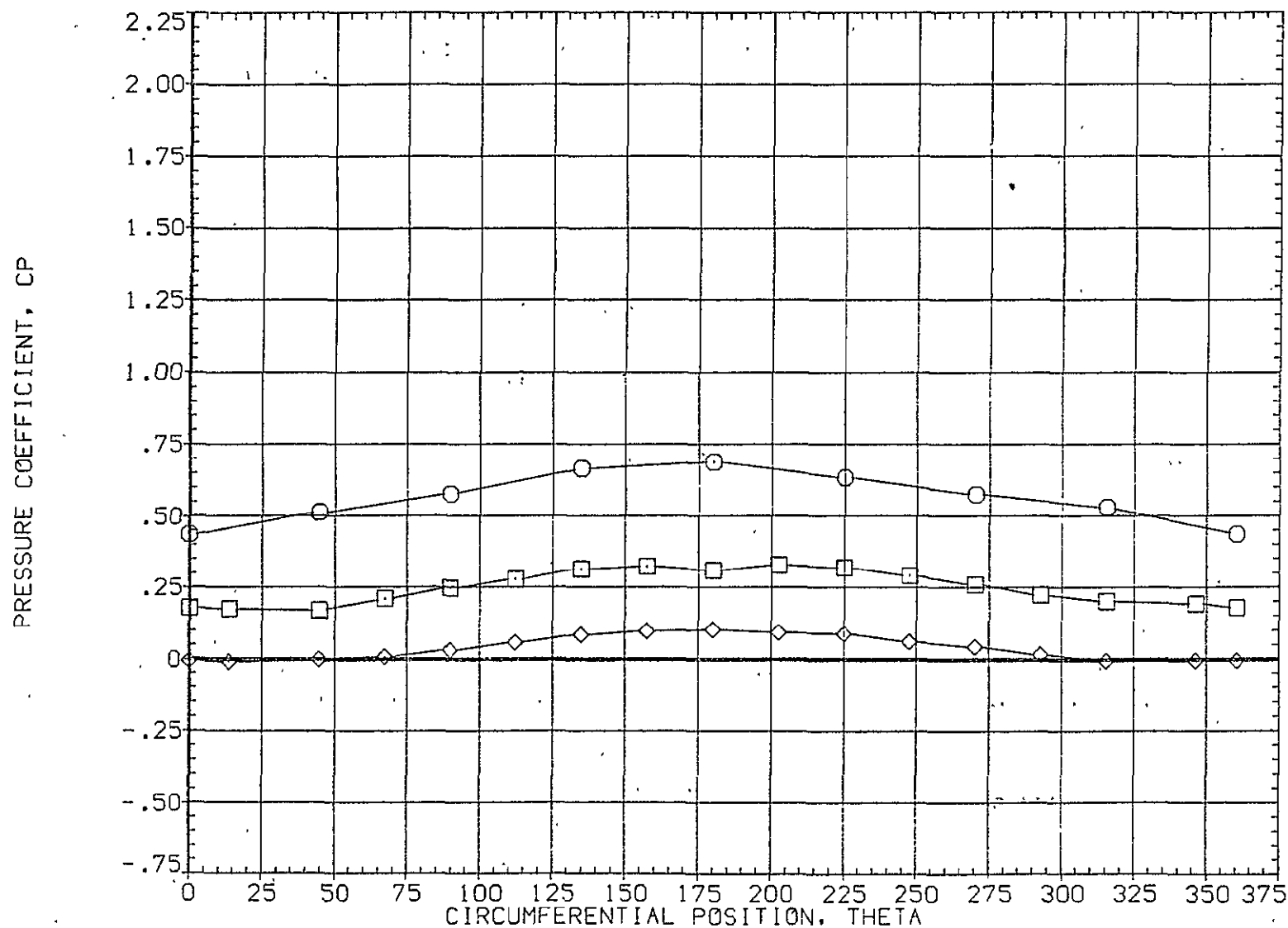


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	3.790	1.960	.000	PHI	.000
□	.322			1.000		.000
◇	.518					

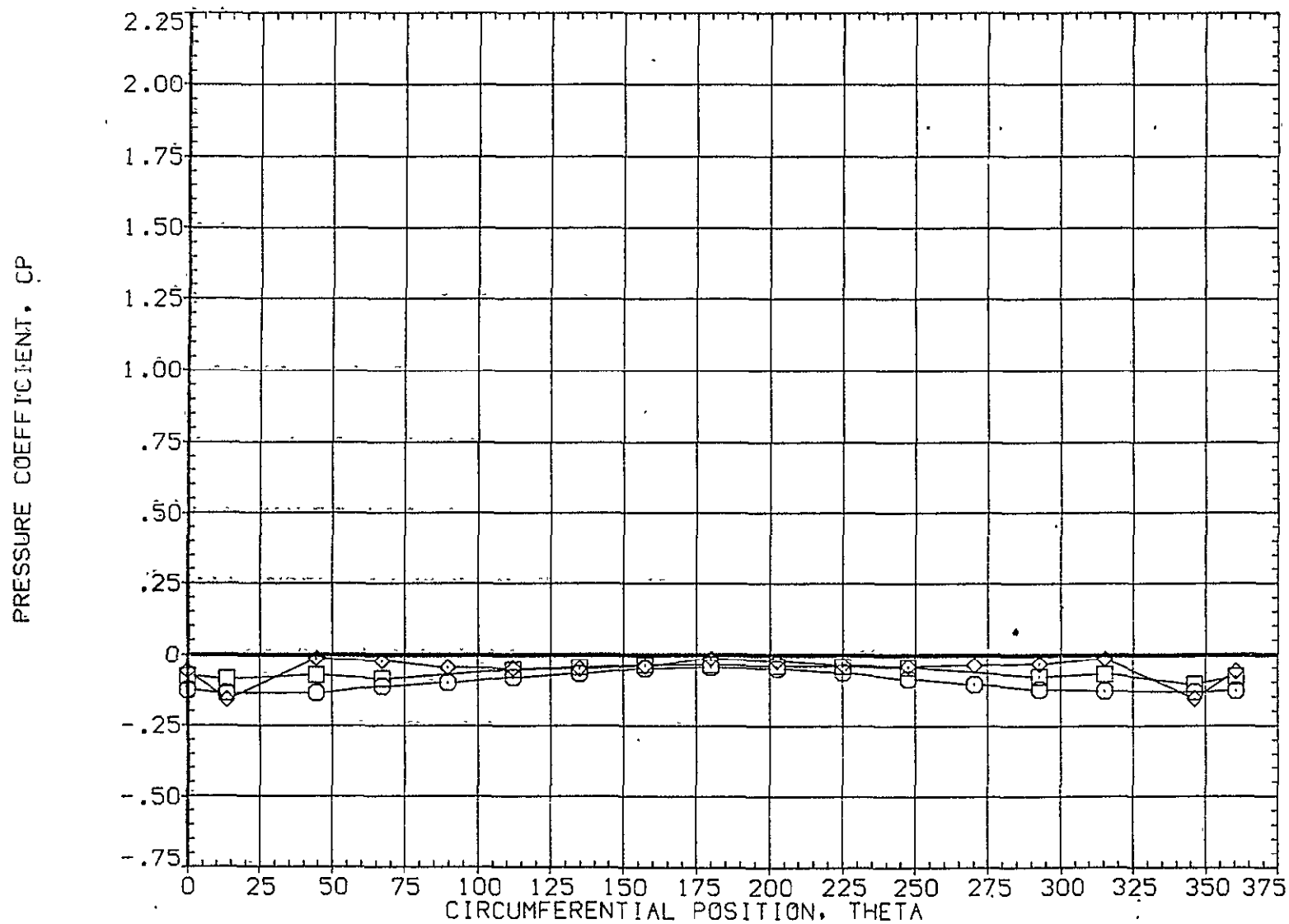


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A004)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	3.790	1.960	.000		.000	
□	.735			1.000	PHI	.000	
◇	.860						

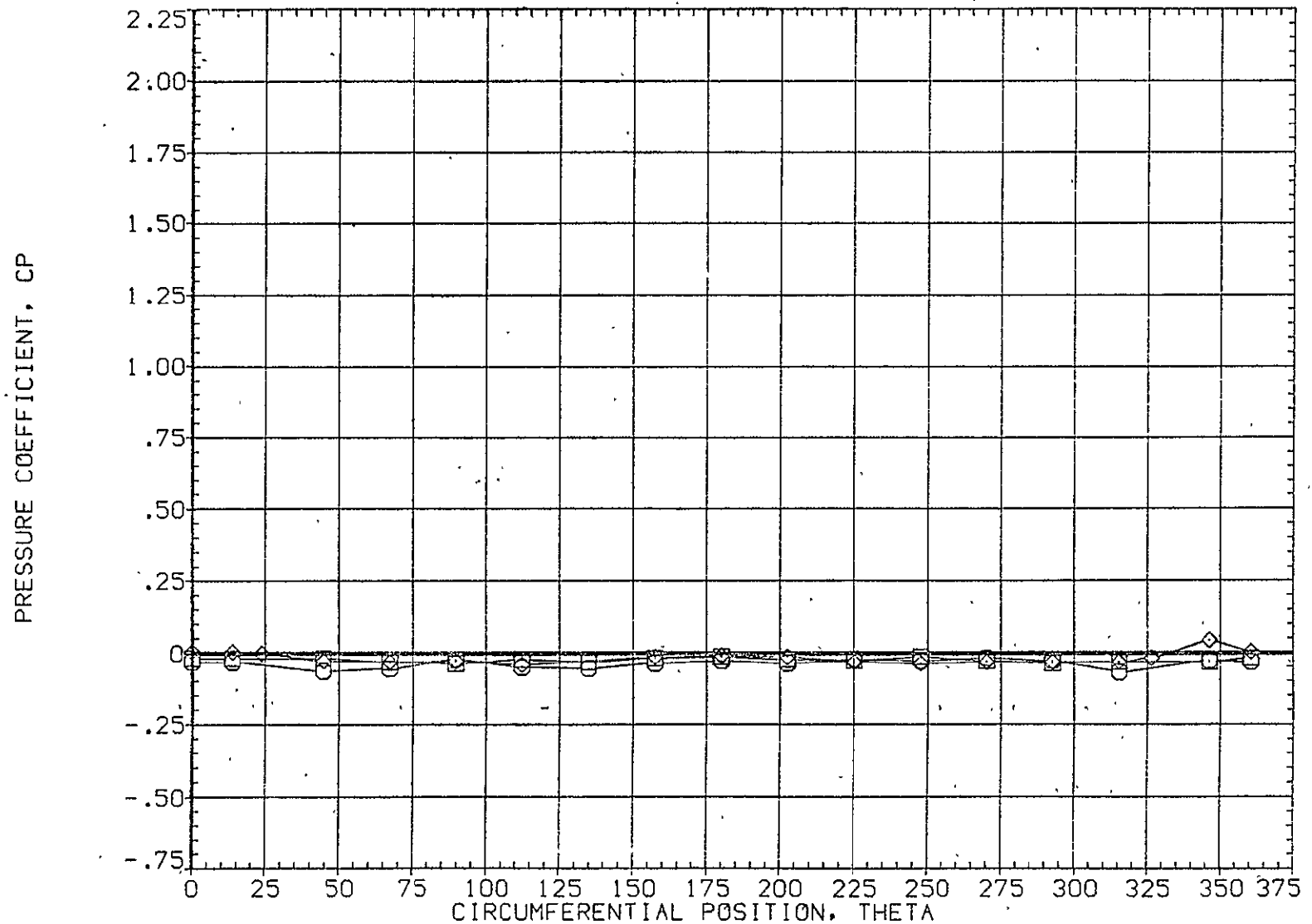


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	3.790	1.960	.000	.000	.000
□	.923			1.000	PHI	.000
◇	.954					

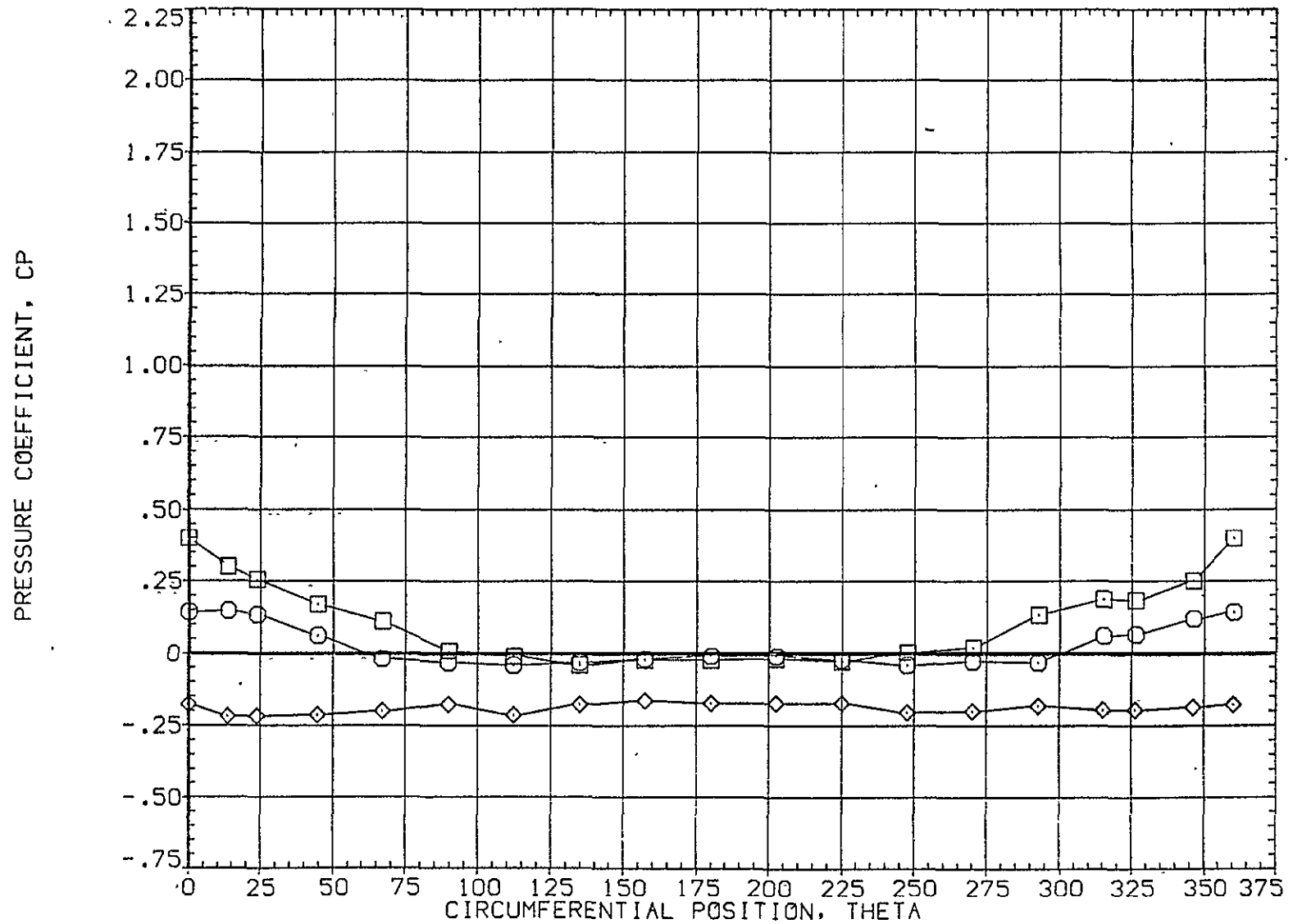


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1 (P1A005)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	7.860	1.960	MOUNT	.000	PHI	.000
□	.108				1.000		.000
◇	.162						

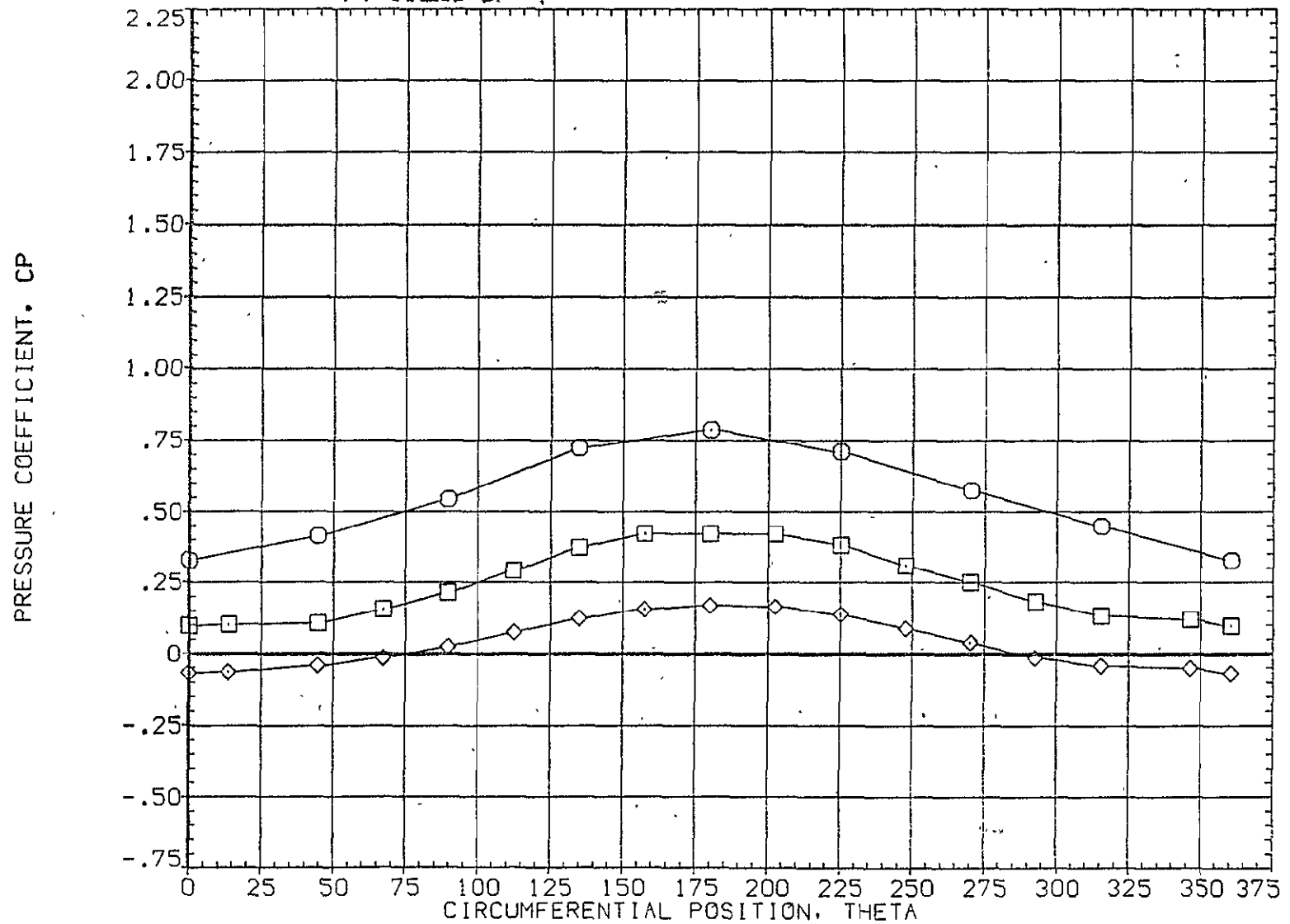


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	7.860	1.960	MOUNT	1.000	PHI
□	.322					
◇	.518					

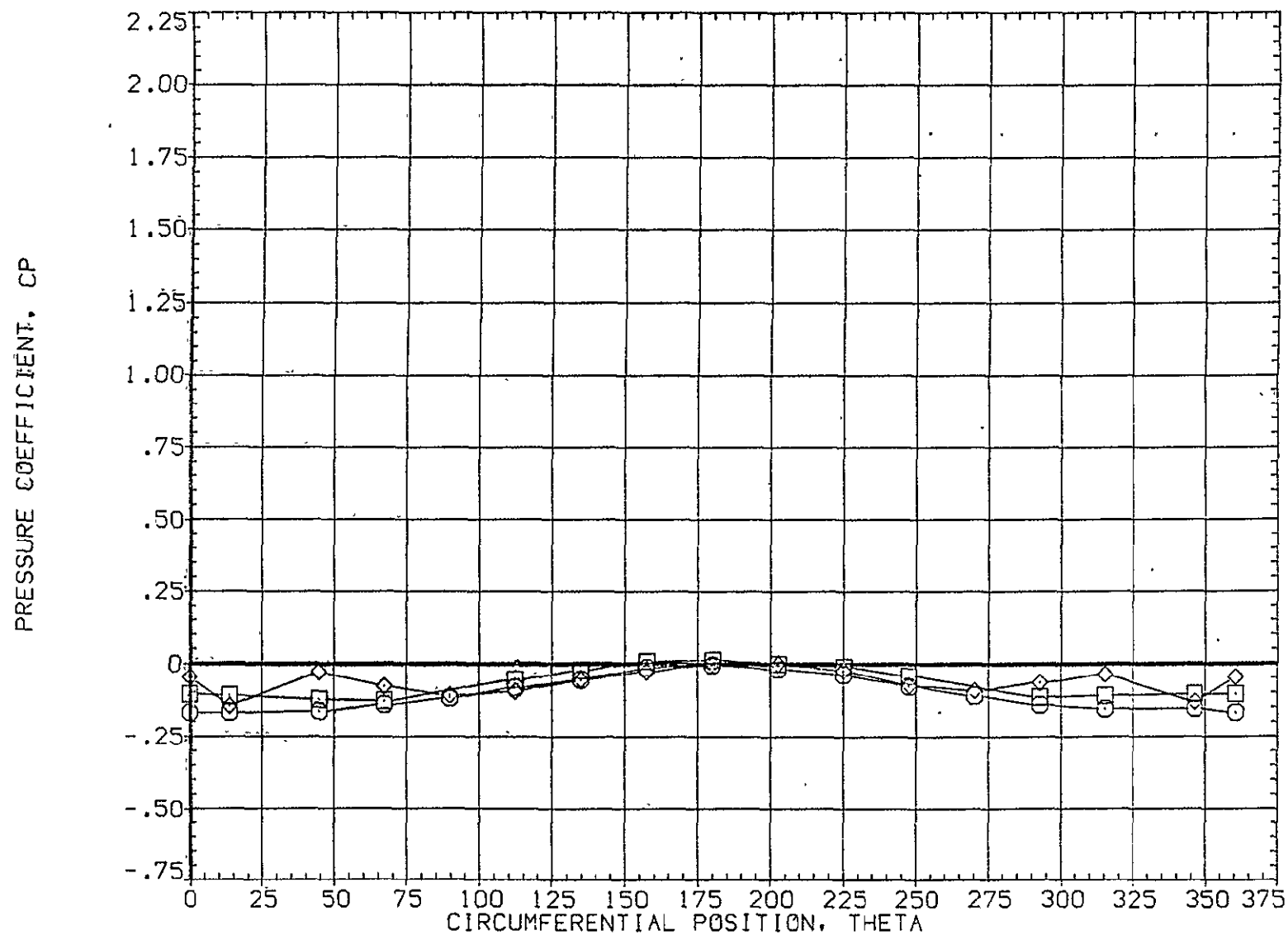


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A005)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	7.860	1.960	.000			.000
□	.735			1.000	PHI		.000
◇	.860						

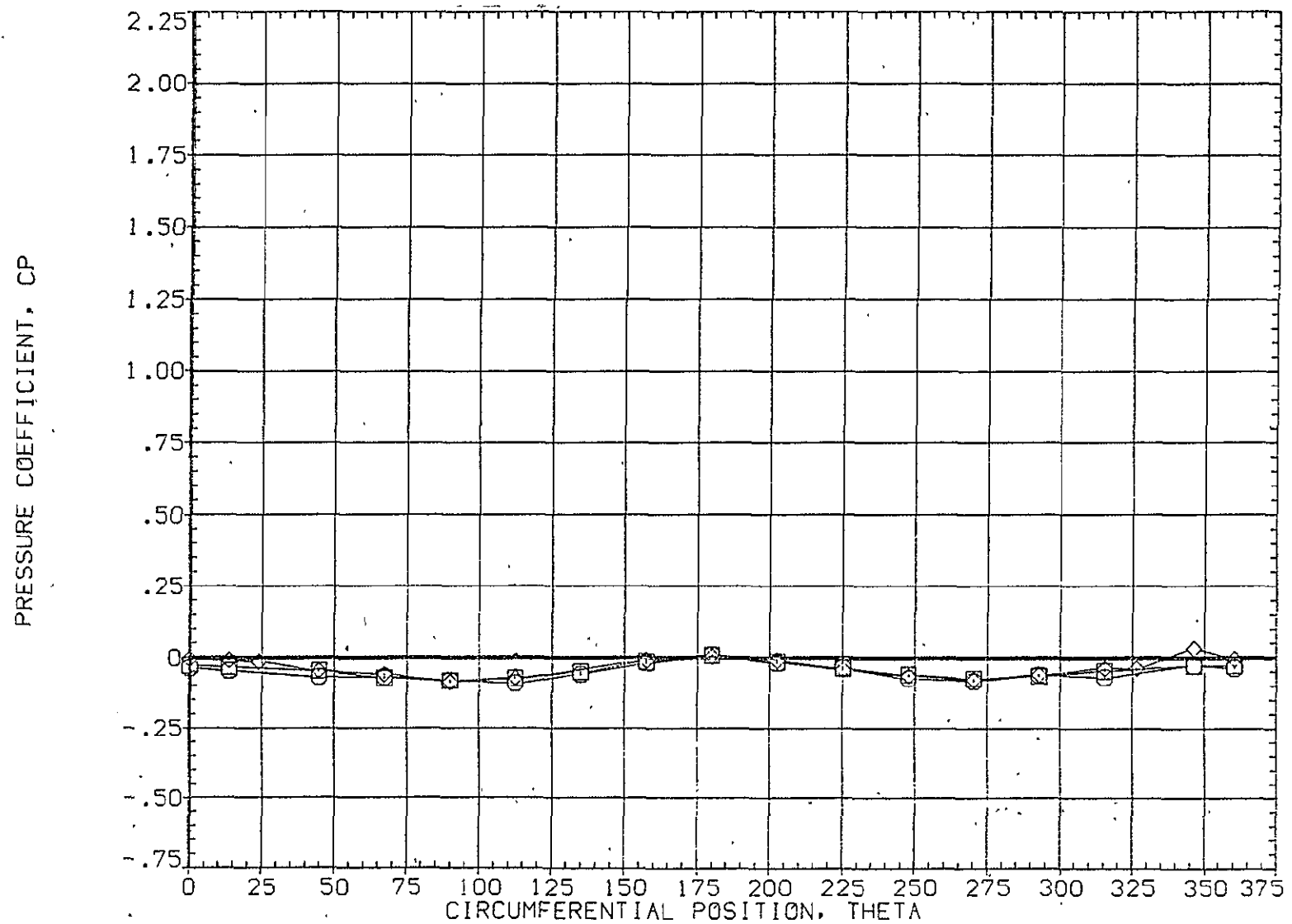


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

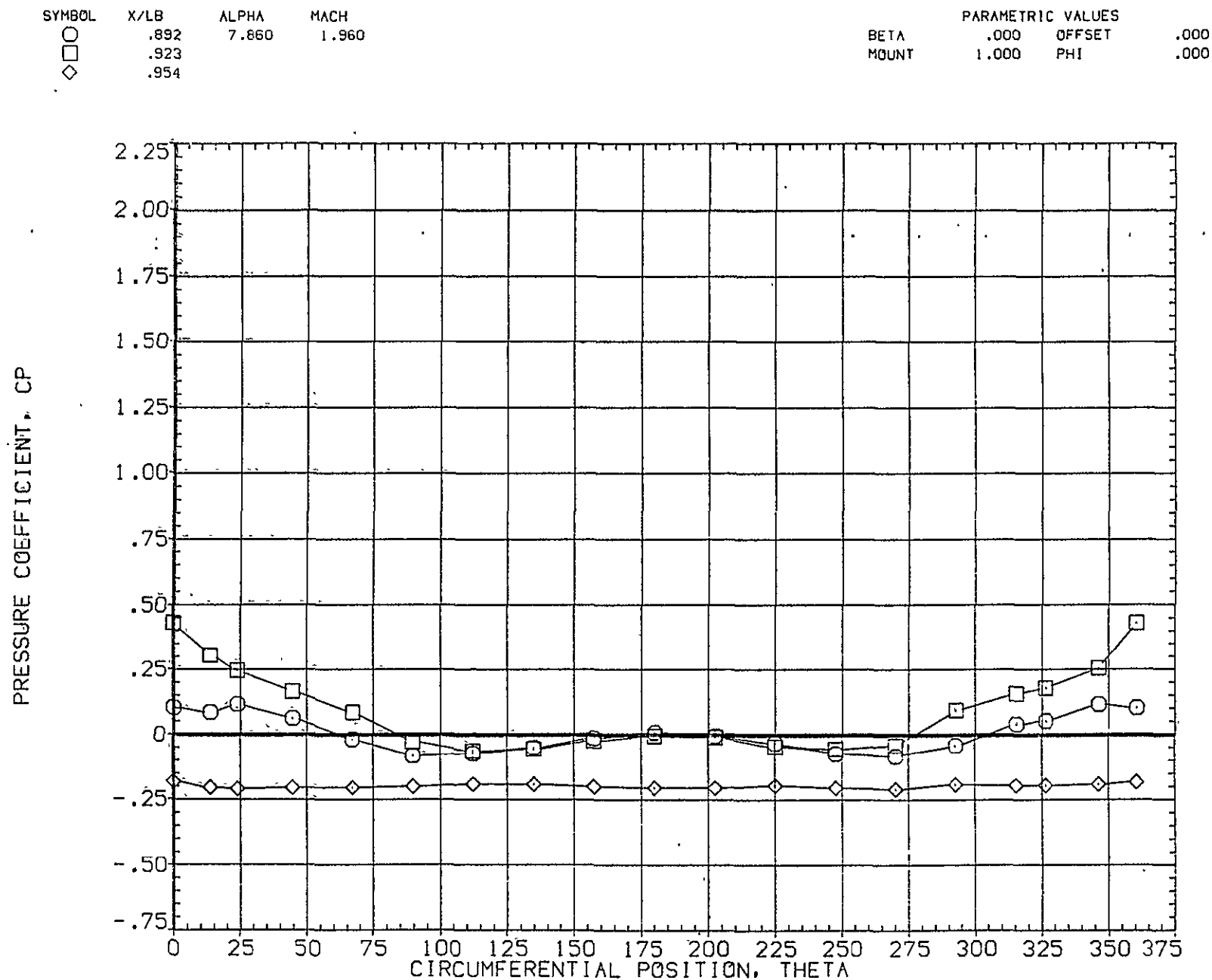


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A006)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES				
	○	.055	12.570	1.970	BETA	.000	OFFSET	20.000
	□	.108			MOUNT	1.000	PHI	.000
	◇	.162						

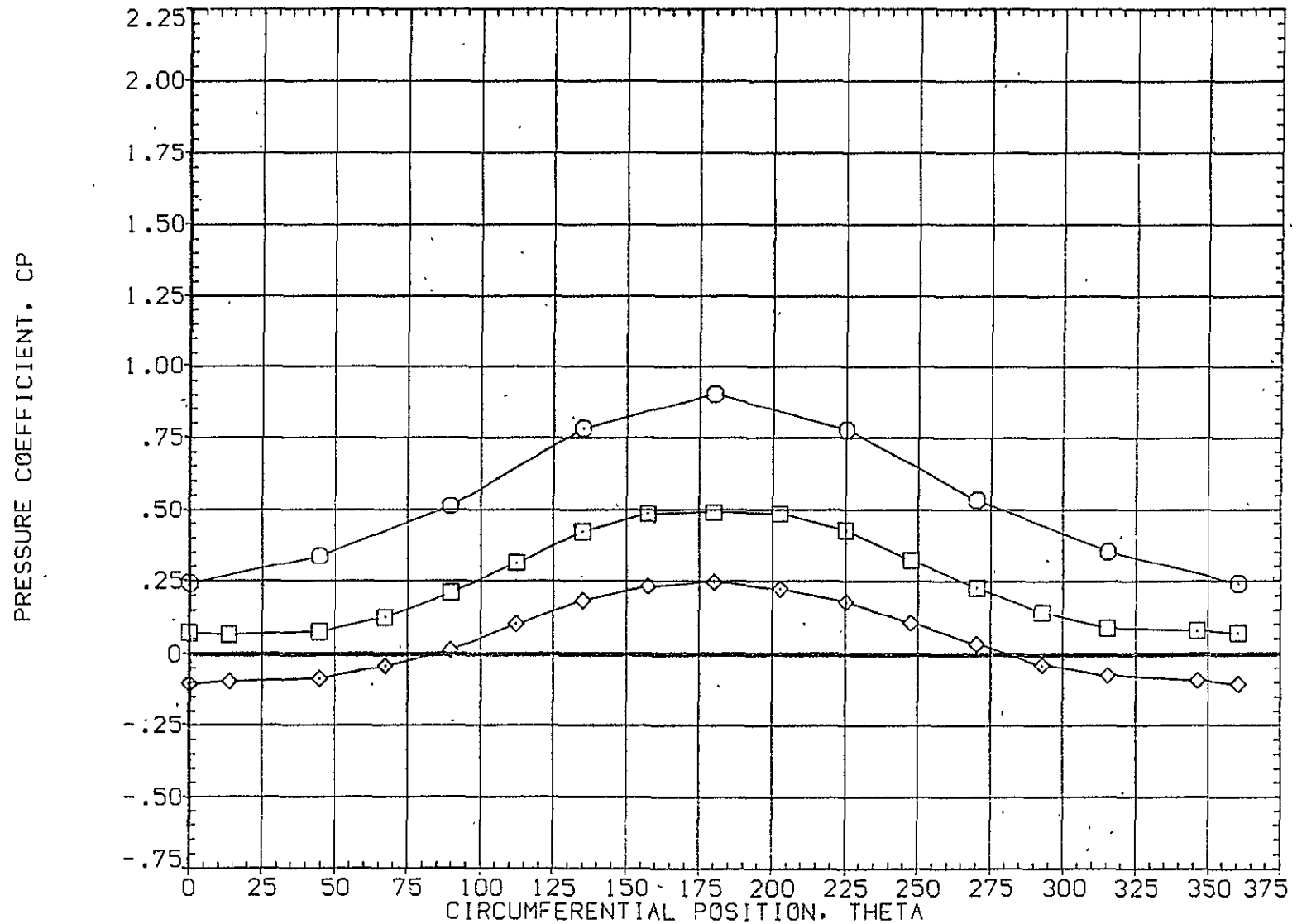


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.216	12.570	1.970		.000		20.000
□	.322			MOUNT	1.000		.000
◇	.518						

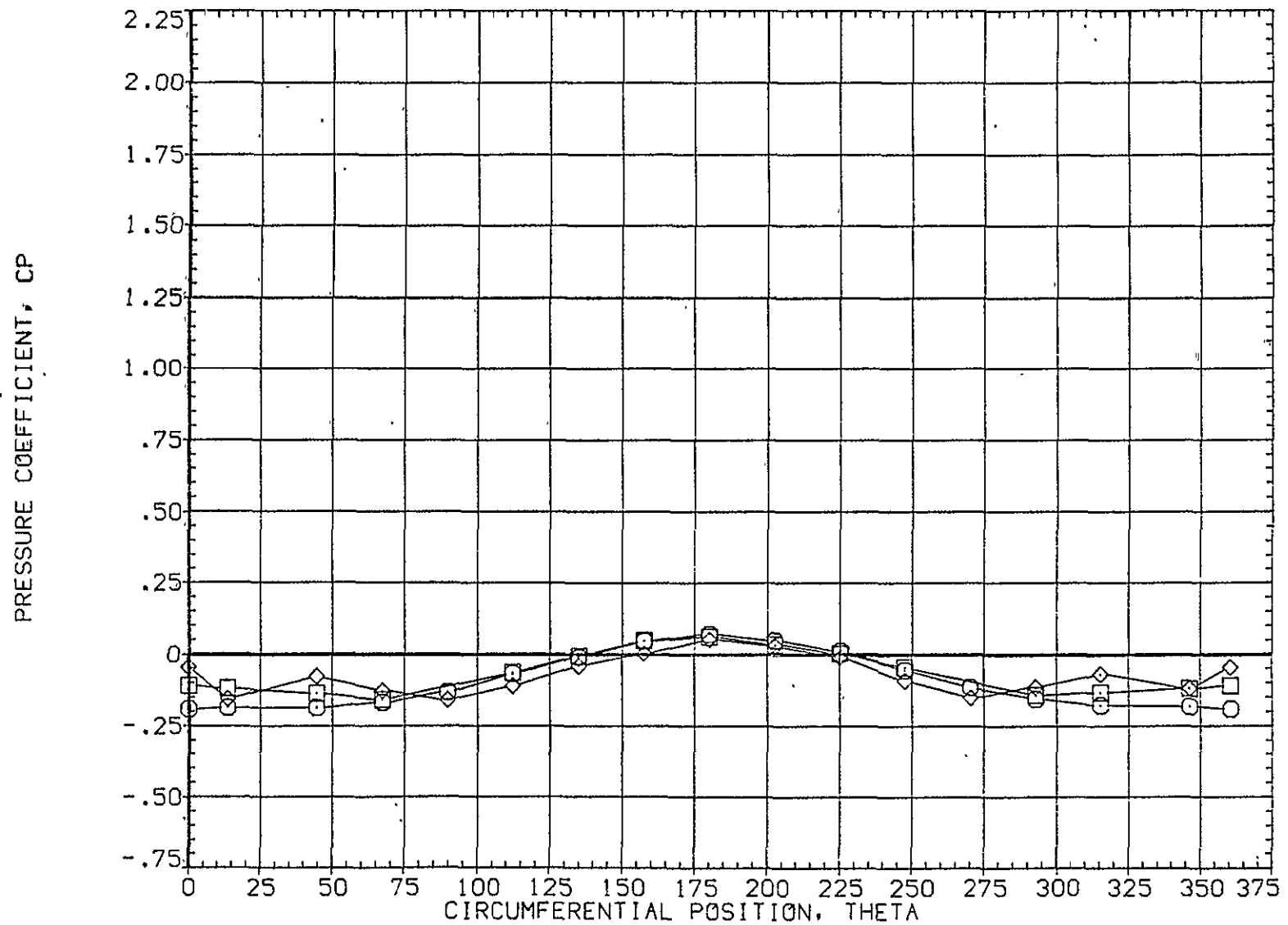


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A006)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.610	12.570	1.970	MOUNT	.000	PHI	.000
□	.735				1.000		
◇	.860						

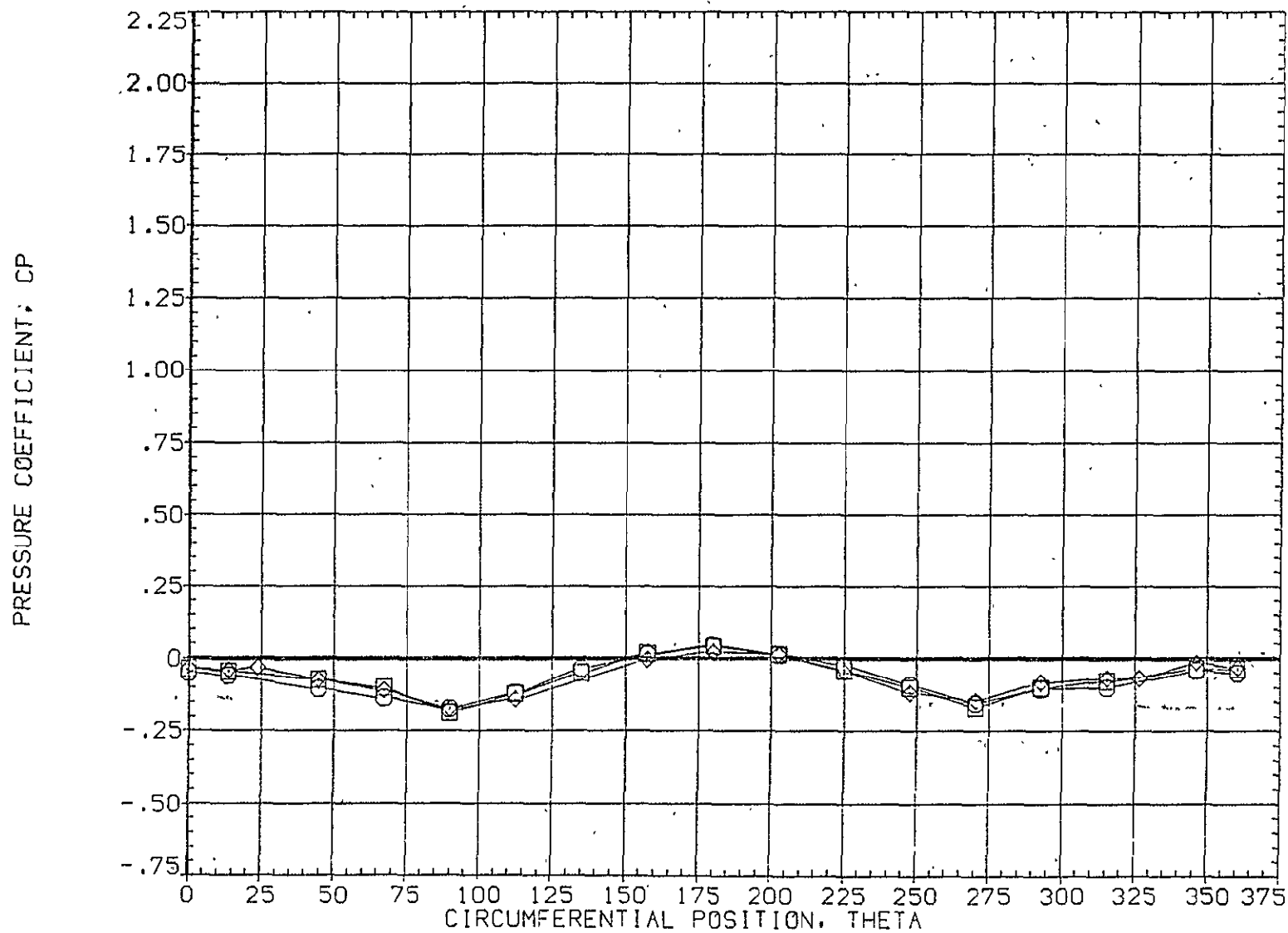


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

BETA

PARAMETRIC VALUES

20.000

MOUNT

1.000

OFFSET

.000

○

.892

12.570

1.970

□

.923

◇

.954

PRESSURE COEFFICIENT, CP

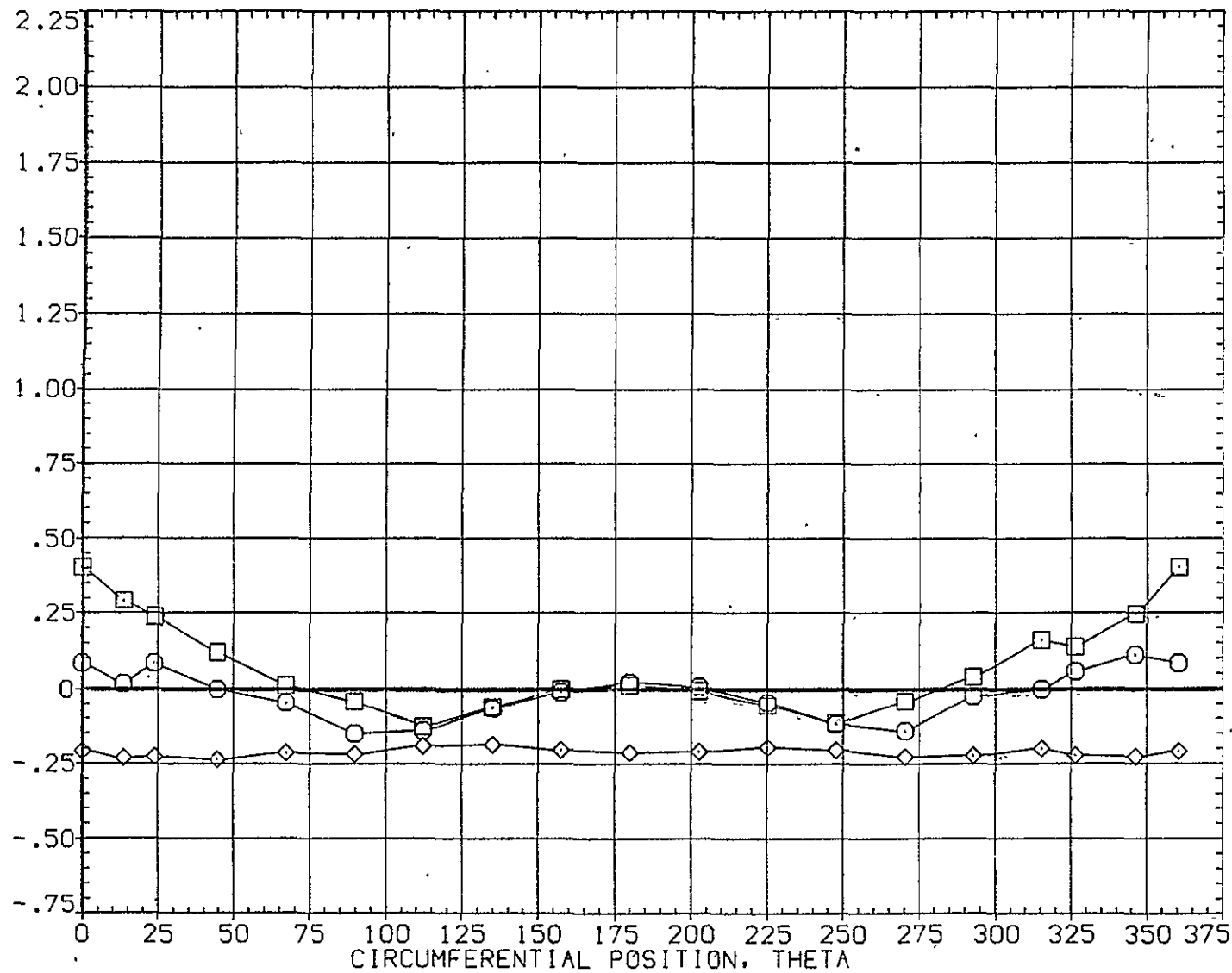


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A007)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	16.660	1.960	MOUNT	.000	OFFSET	20.000
□	.108				1.000	PHI	.000
◇	.162						

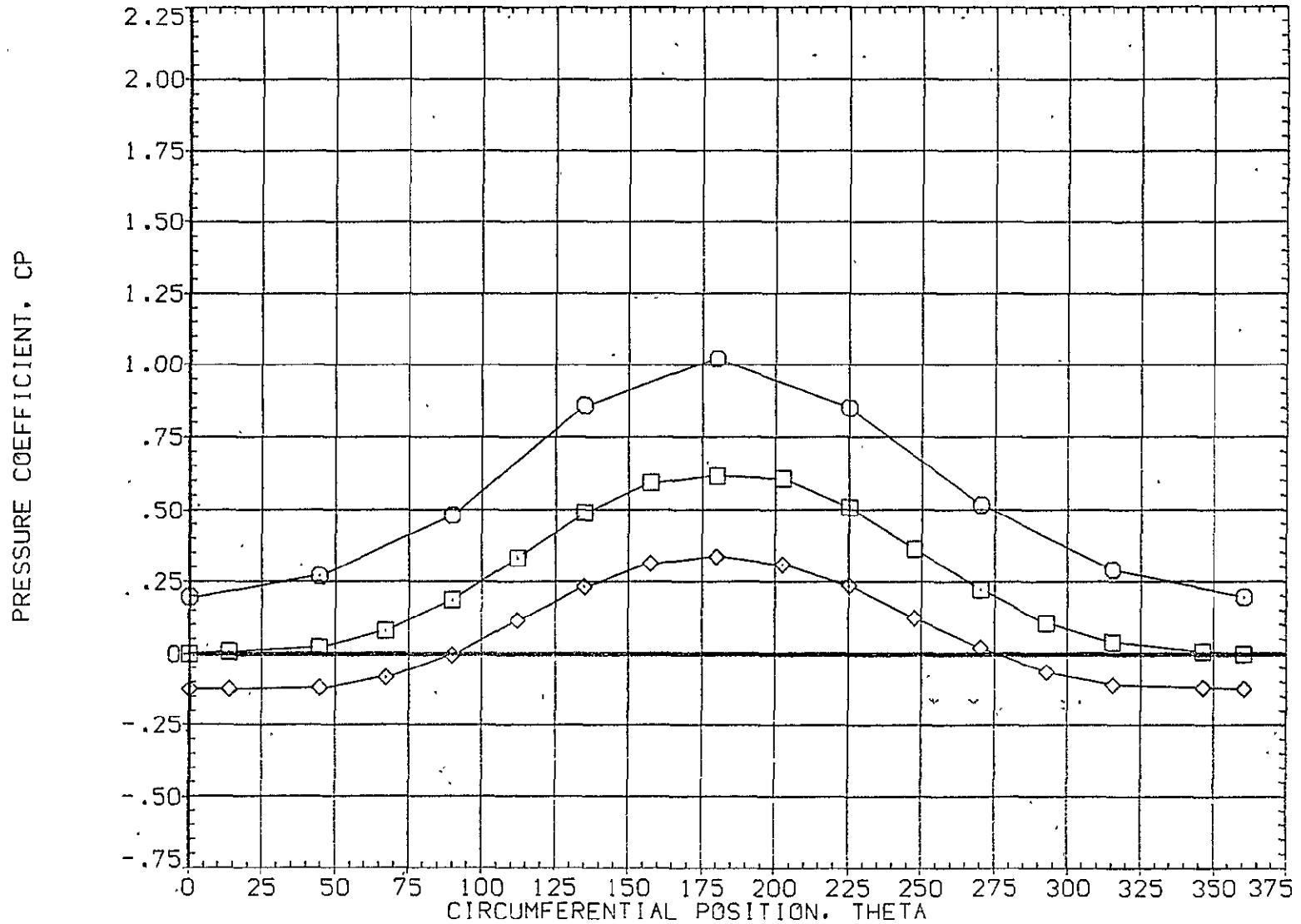


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	16.660	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	.000

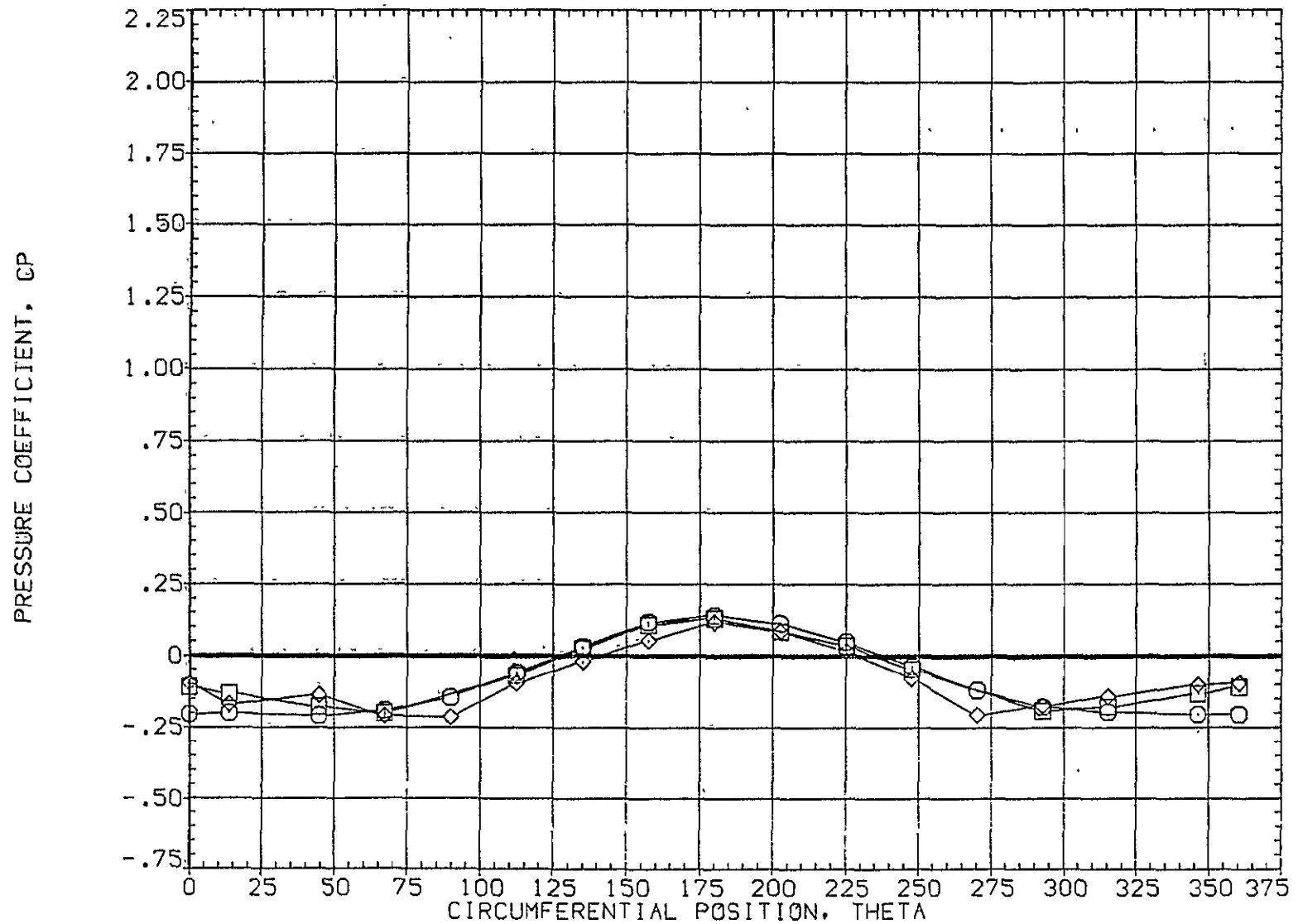


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A007)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	16.660	1.960	MOUNT	.000	PHI	.000
□	.735						
◇	.860						

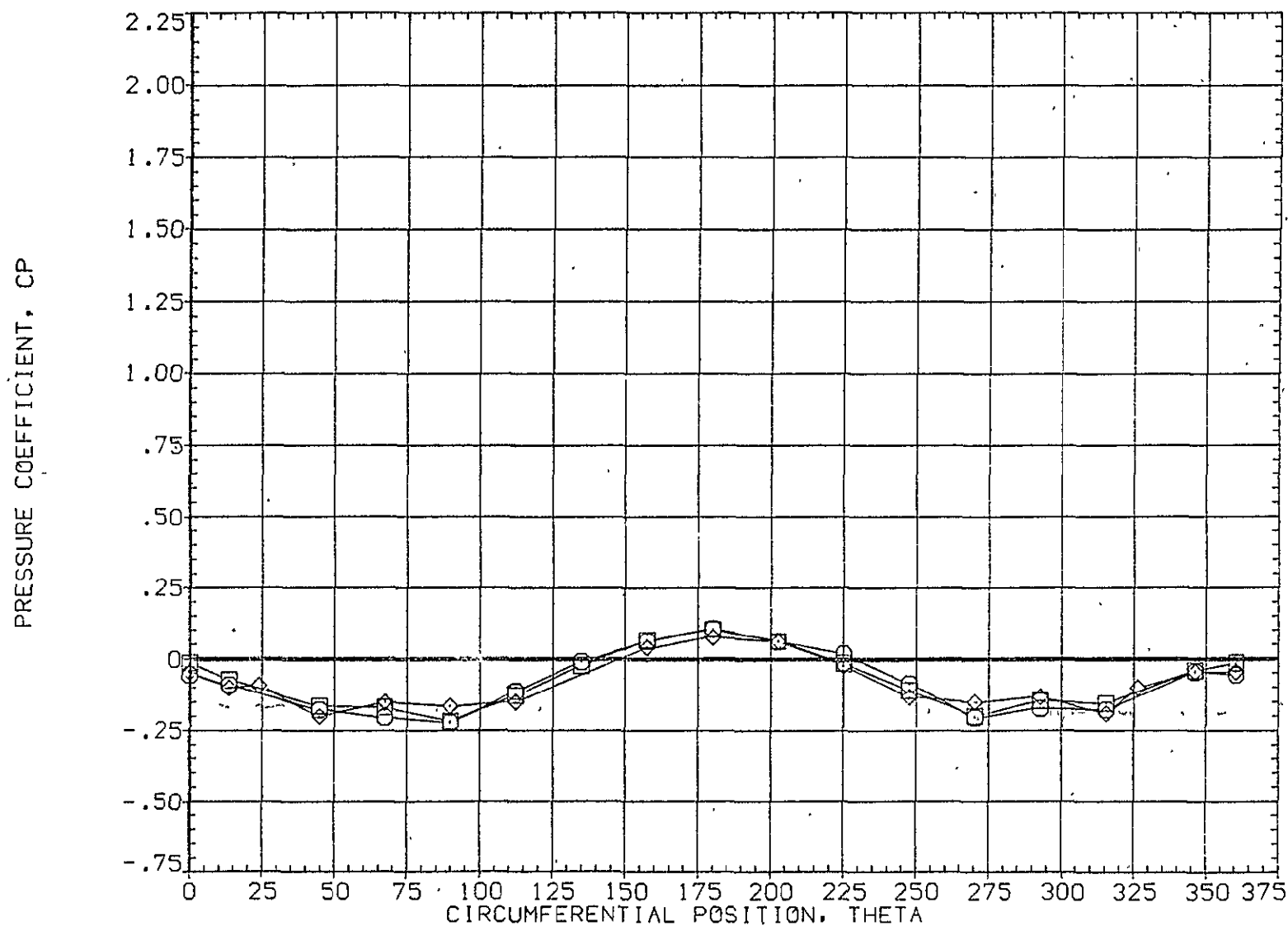


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	16.660	1.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	OFFSET	20.000
MOUNT	PHI	.000

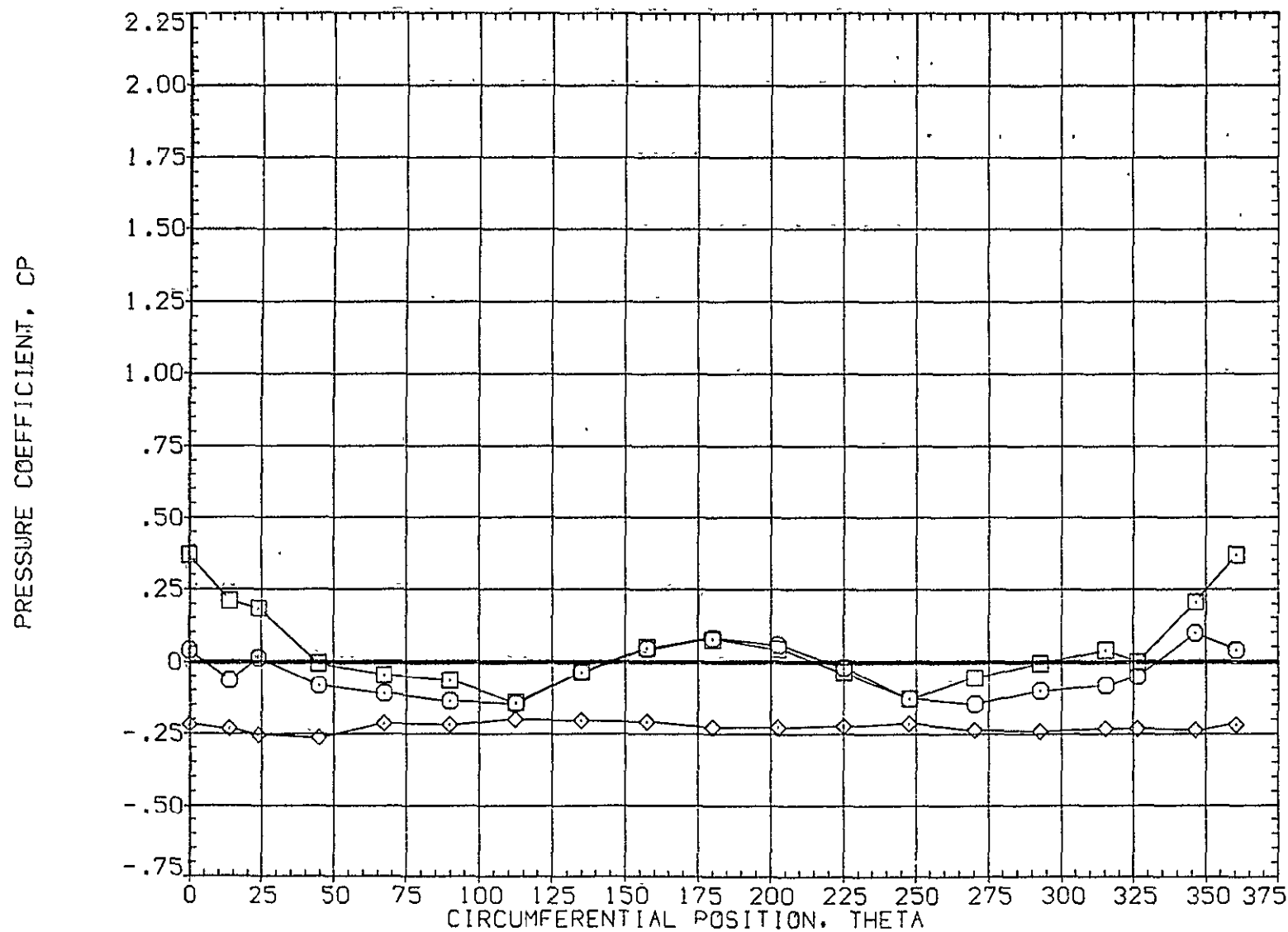


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200. EXTERNAL TANK, T1

(P1A008)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	20.000
○	.055	20.740	1.960	.000			
□	.108			1.000			
◇	.162						

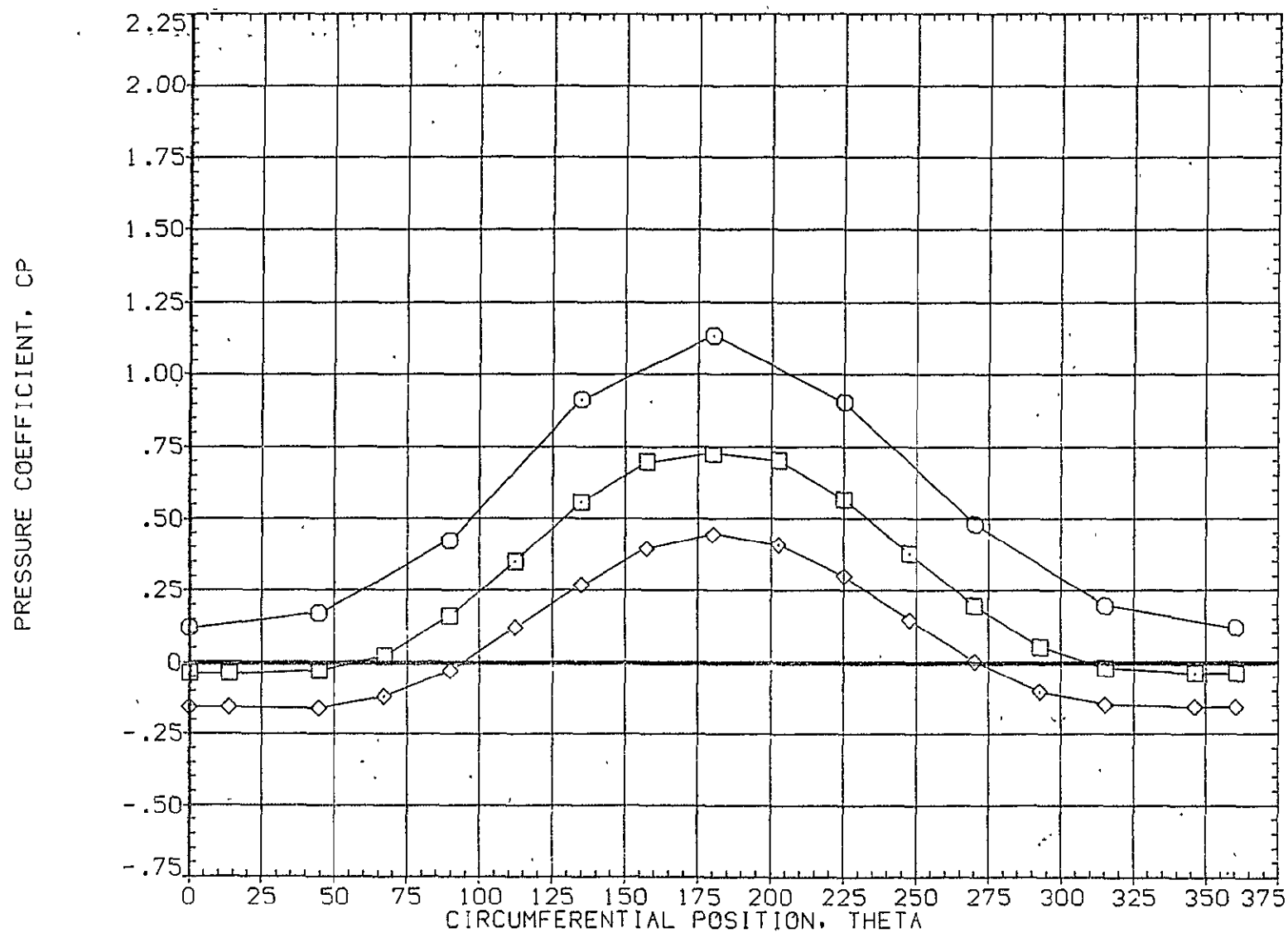


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.740	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET
MOUNT	1.000	PHI
		20.000
		.000

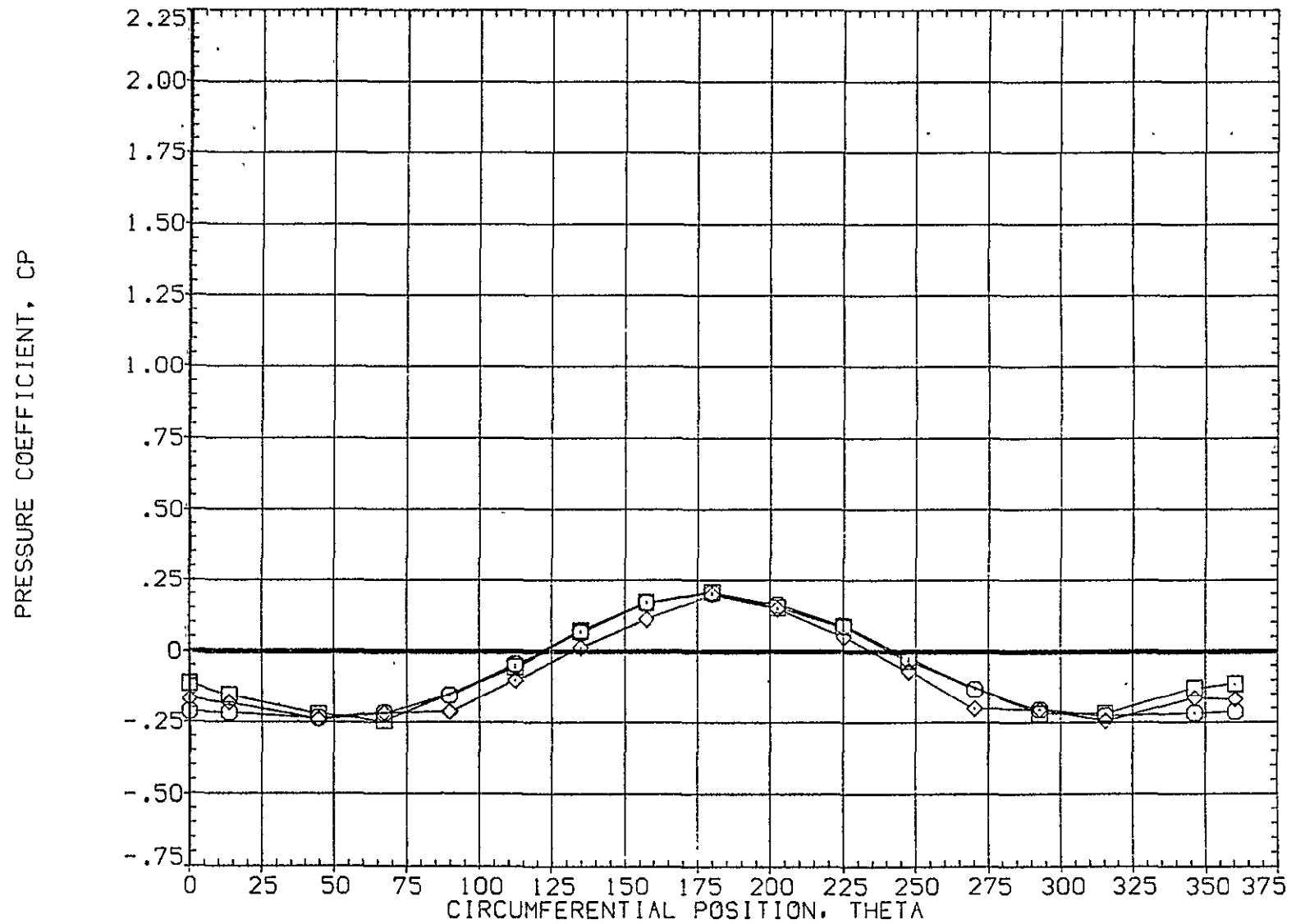


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A008)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	20.740	1.960	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	.000
◇	.860						

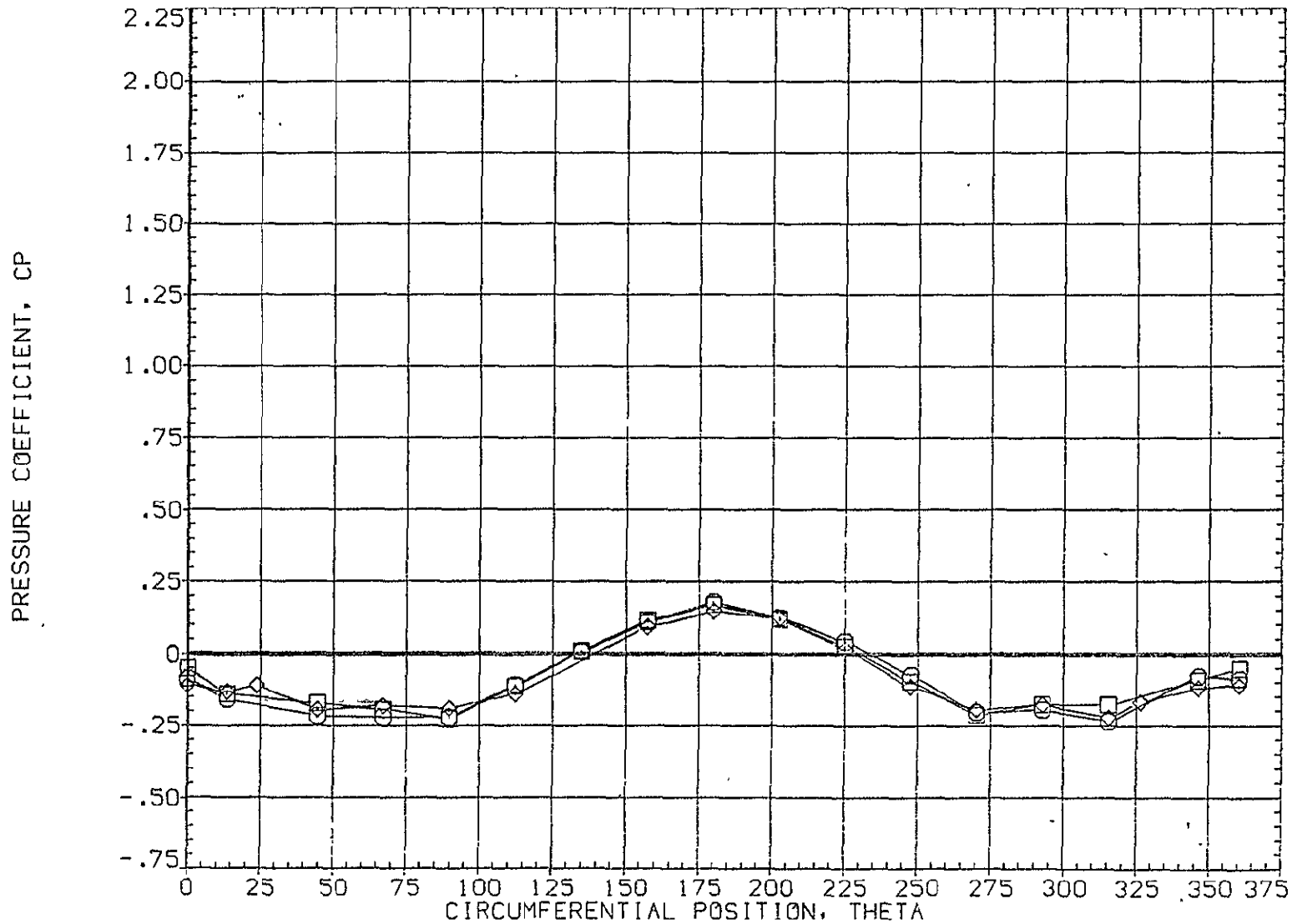


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

.892
.923
.954

ALPHA

20.740

MACH

1.960

BETA

PARAMETRIC VALUES

MOUNT

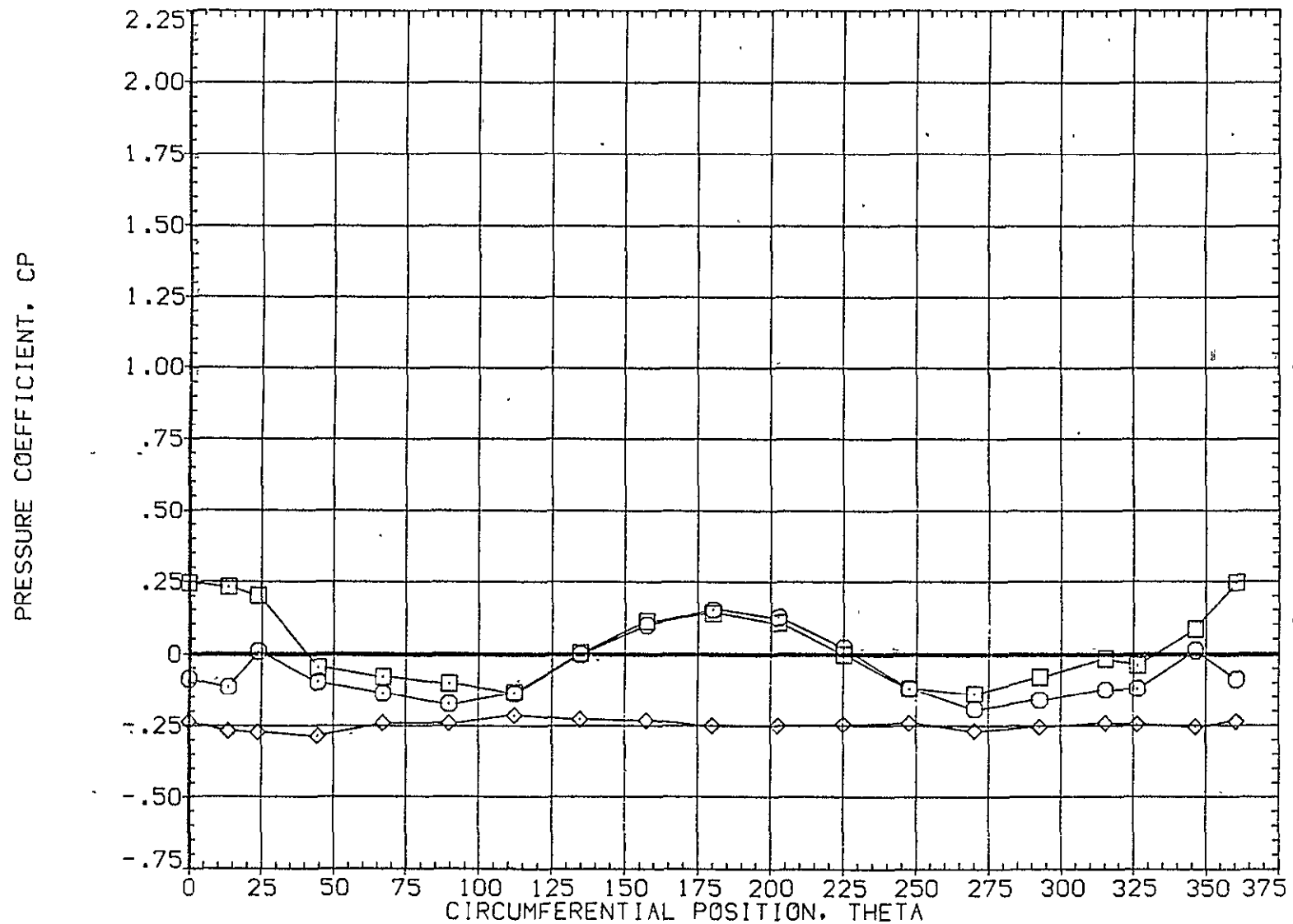
.000
1.000OFFSET
PHI20.000
.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A009)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.055	24.850	1.960	BETA	.000	OFFSET
□	.108			MOUNT	1.000	PHI
◇	.162					20.000
						.000

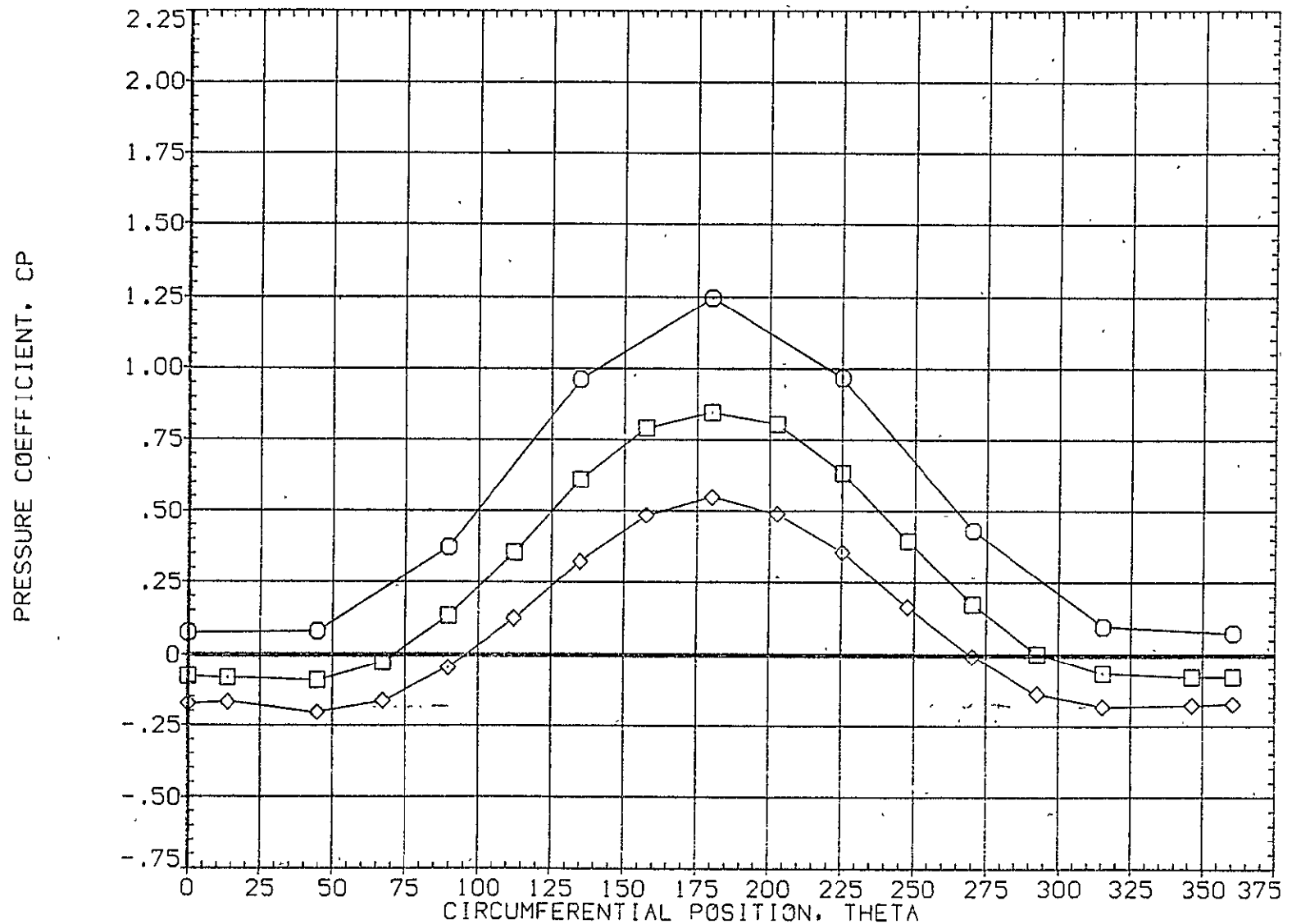


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.216	24.850	1.960	MOUNT	.000	OFFSET	20.000
□	.322				1.000	PHI	.000
◇	.518						

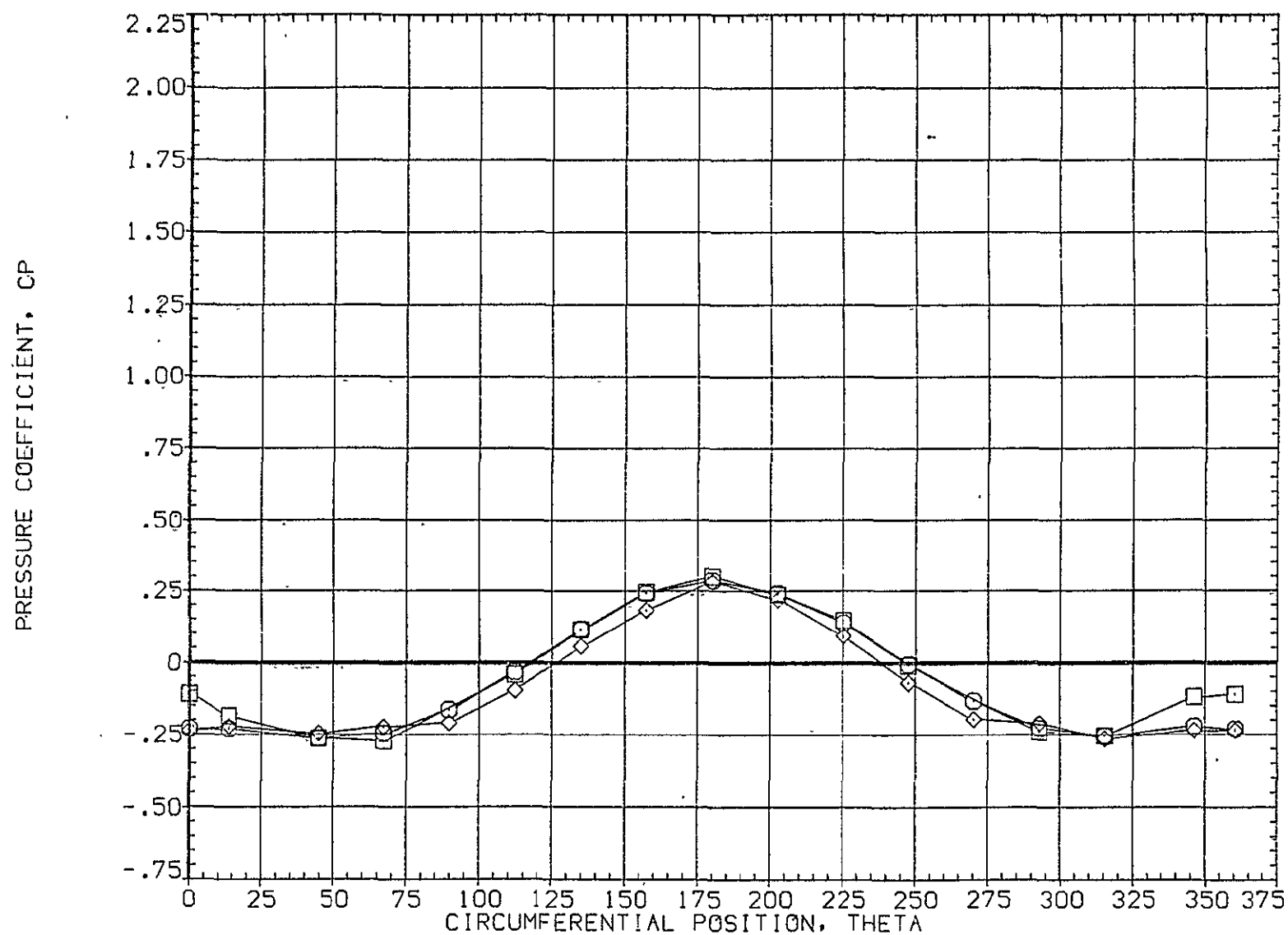


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A009)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	24.850	1.960	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	.000
◇	.860						

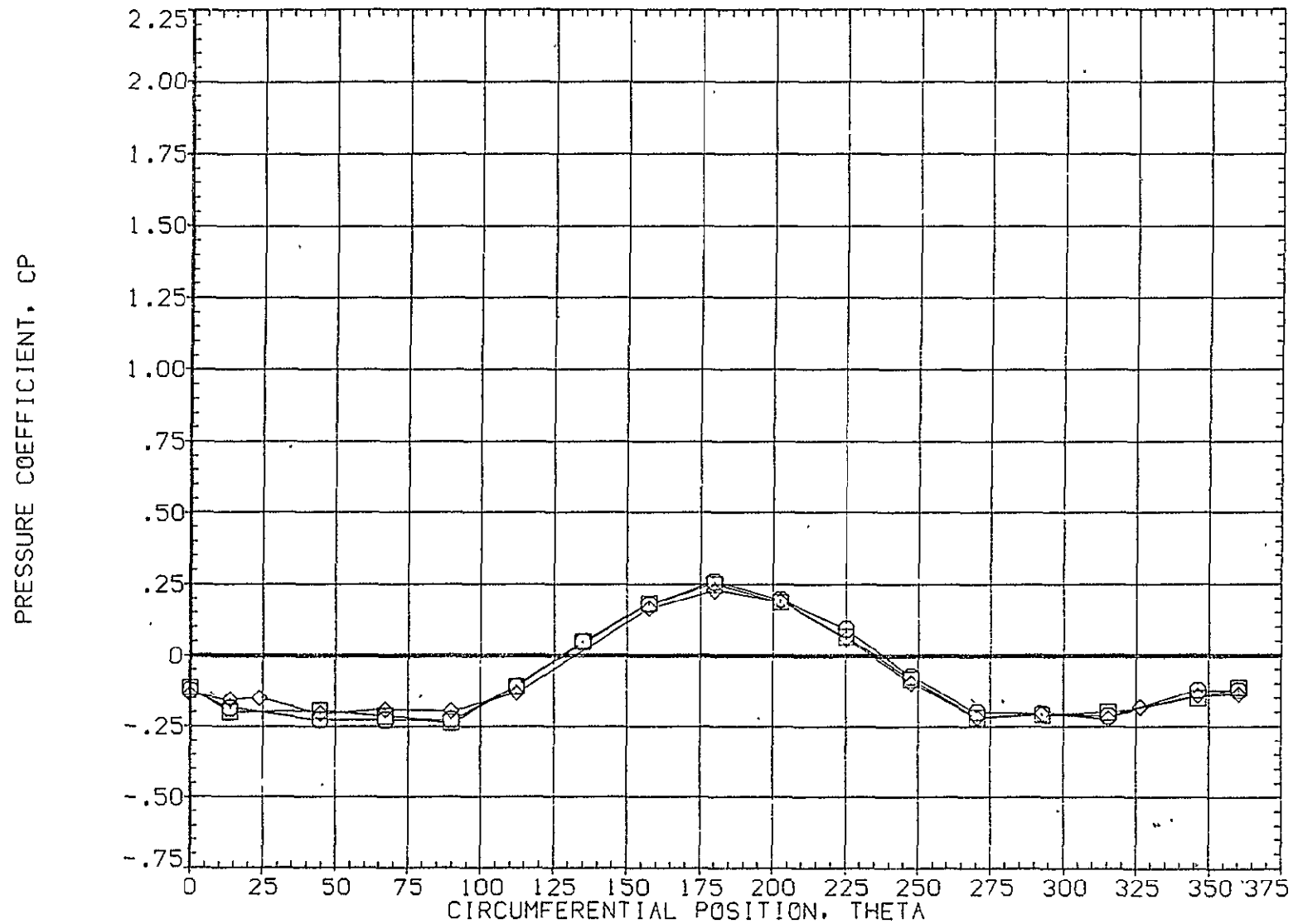


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○

□

◇

X/LB

.892

.923

.954

ALPHA

24.850

MACH

1.960

BETA

MOUNT

PARAMETRIC VALUES

.000

OFFSET

20.000

PHI

.000

PRESSURE COEFFICIENT, CP

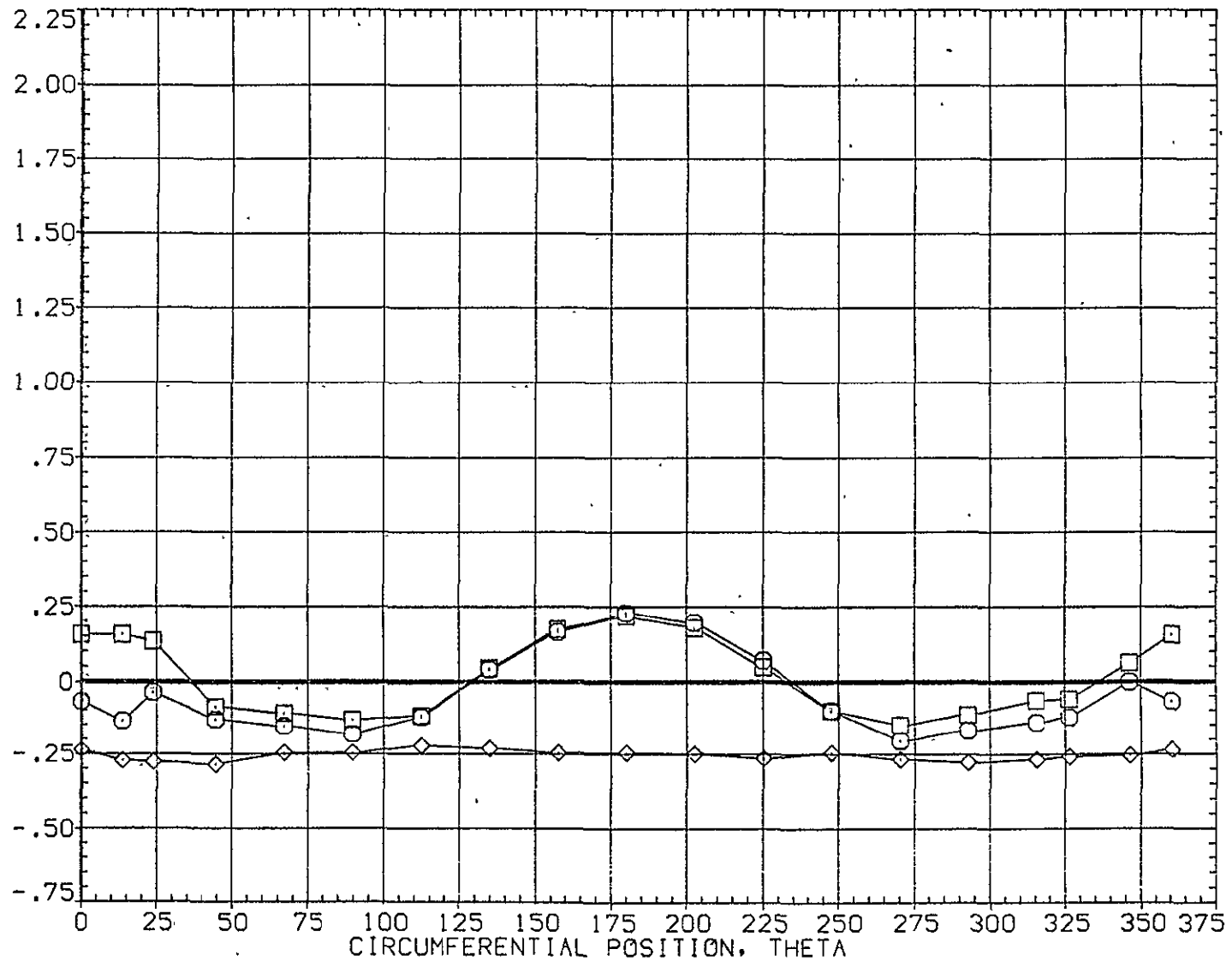


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A010)

SYMBOL	X/LB	ALPHA	HACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	28.950	1.960	MOUNT	.000	PHI	.000
□	.108				1.000		
◇	.162						

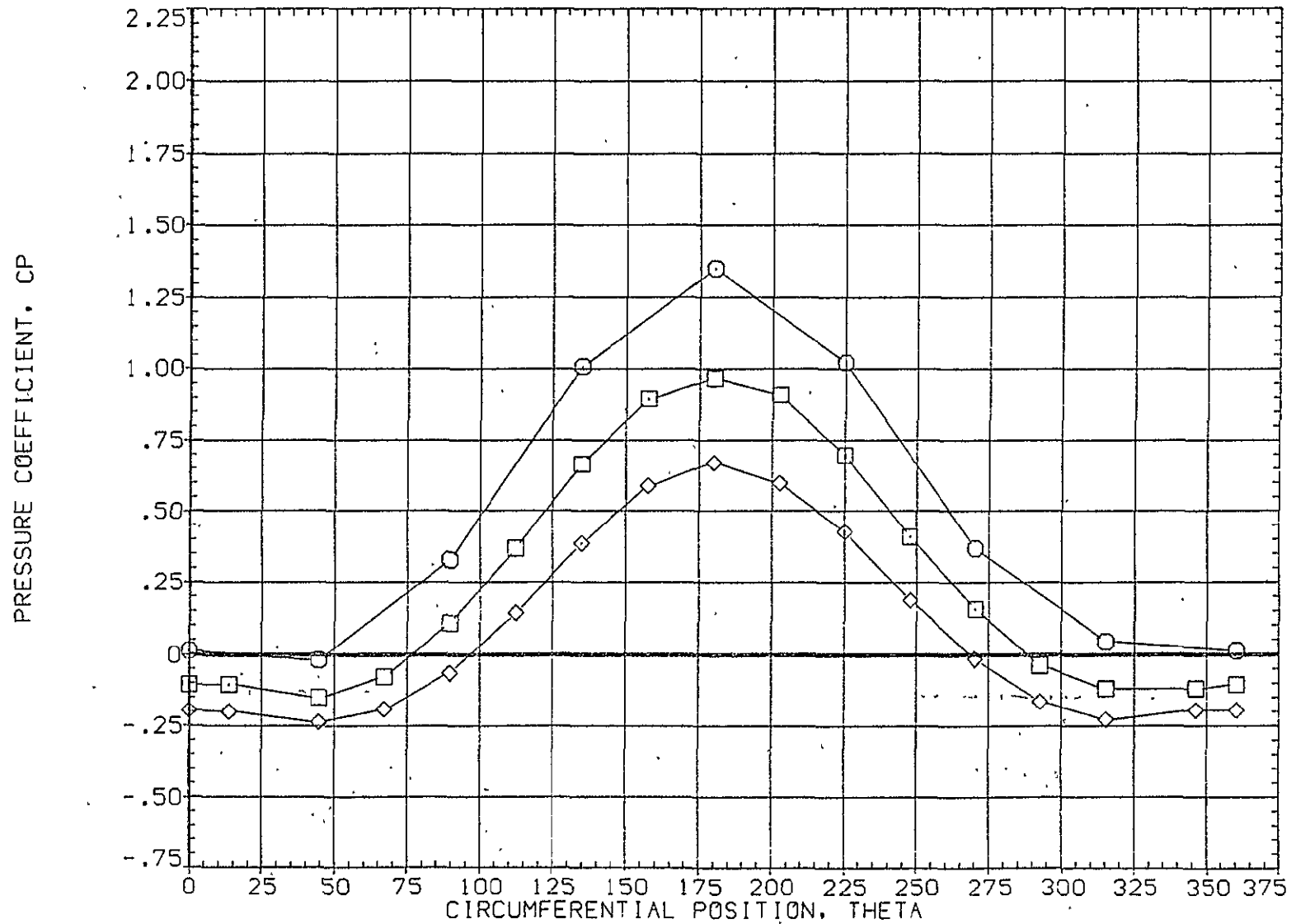


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.216	28.950	1.960	.000	OFFSET 20.000
□	.322			1.000	PHI .000
◇	.518				

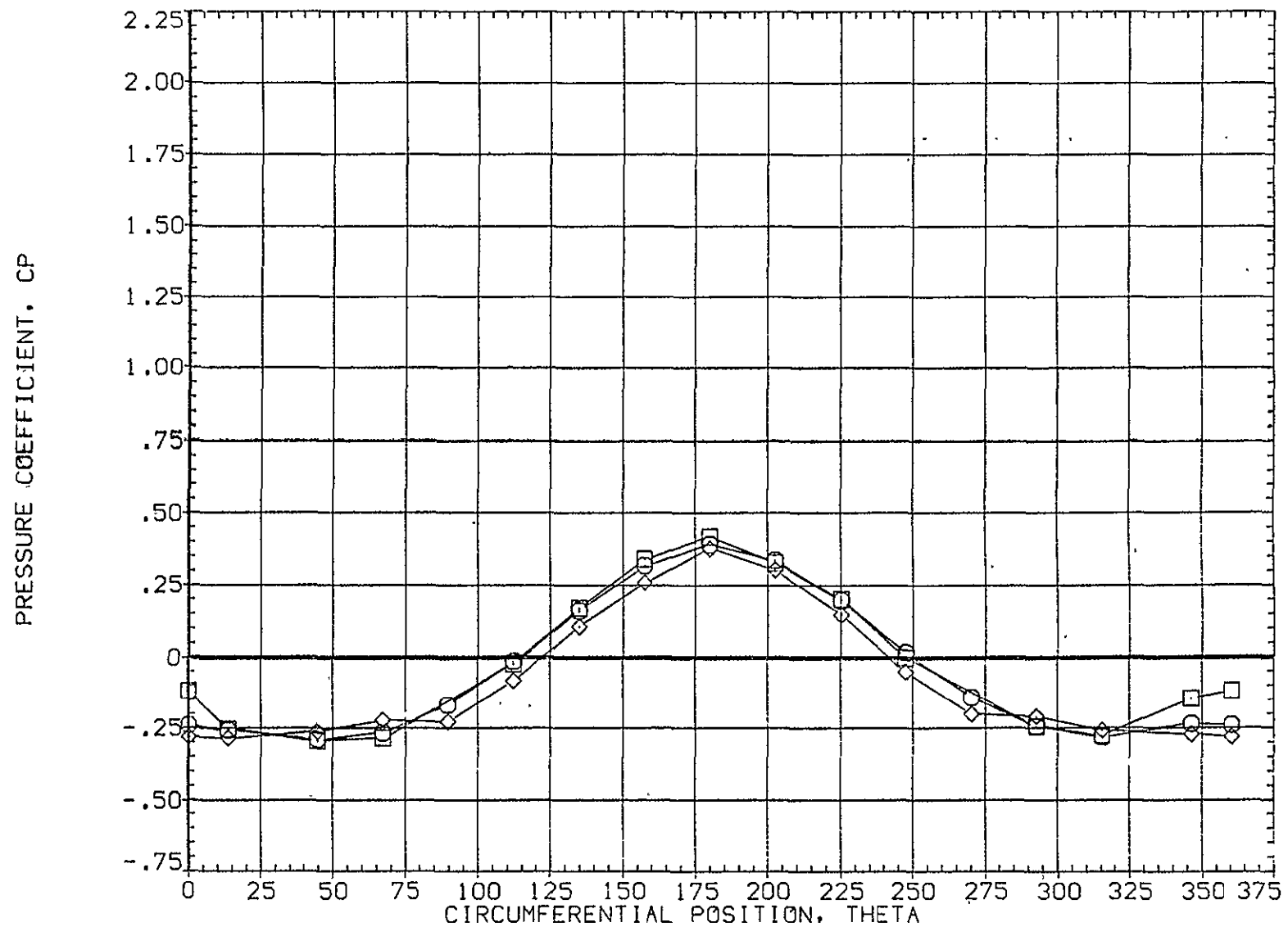


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A010)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		20.000
○	.610	28.950	1.960	MOUNT	.000	OFFSET	
□	.735				1.000	PHI	.000
◇	.860						

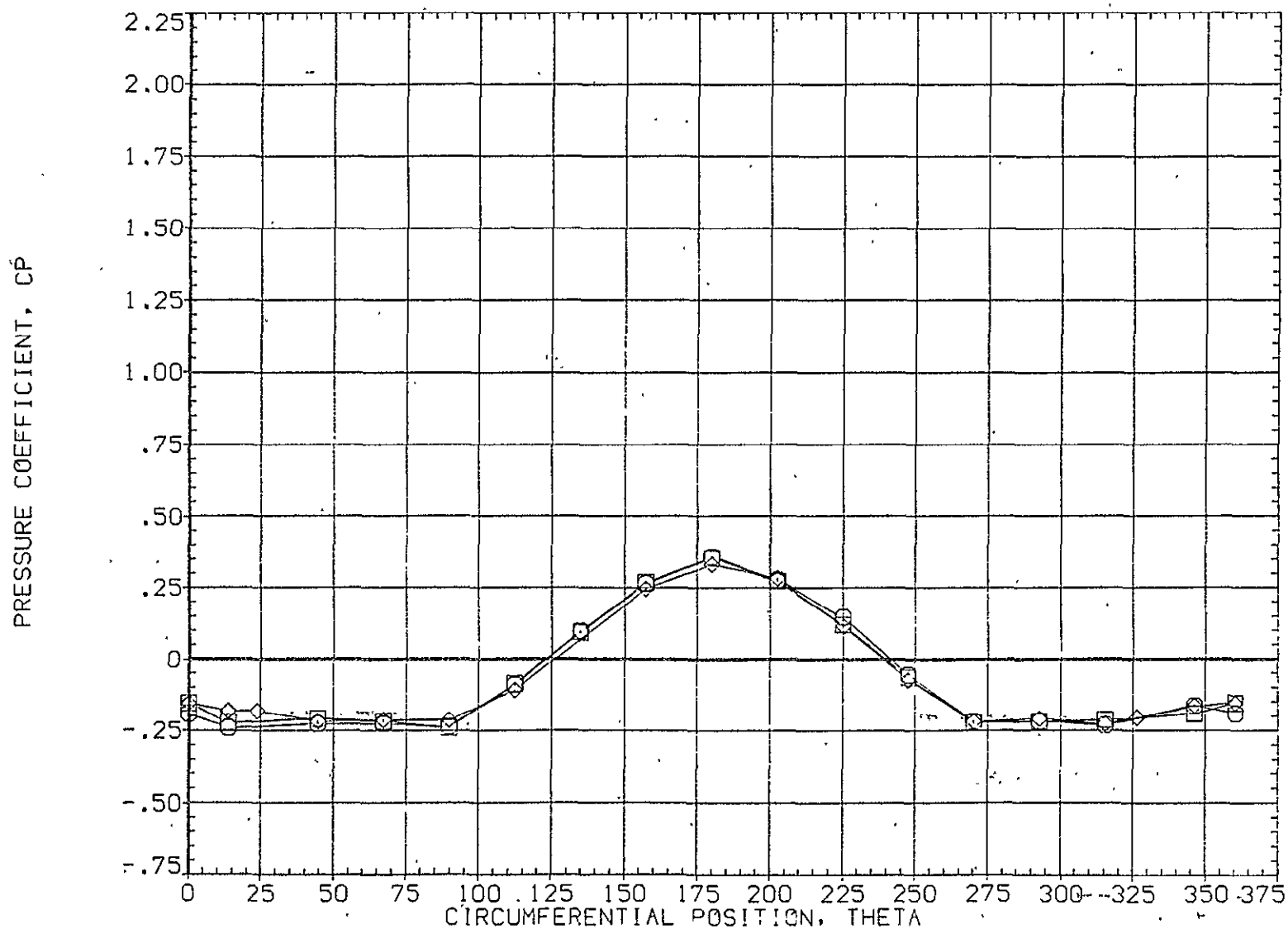


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PIT	
○	.892	28.950	1.960	.000	20.000	
□	.923			1.000		.000
◇	.954					

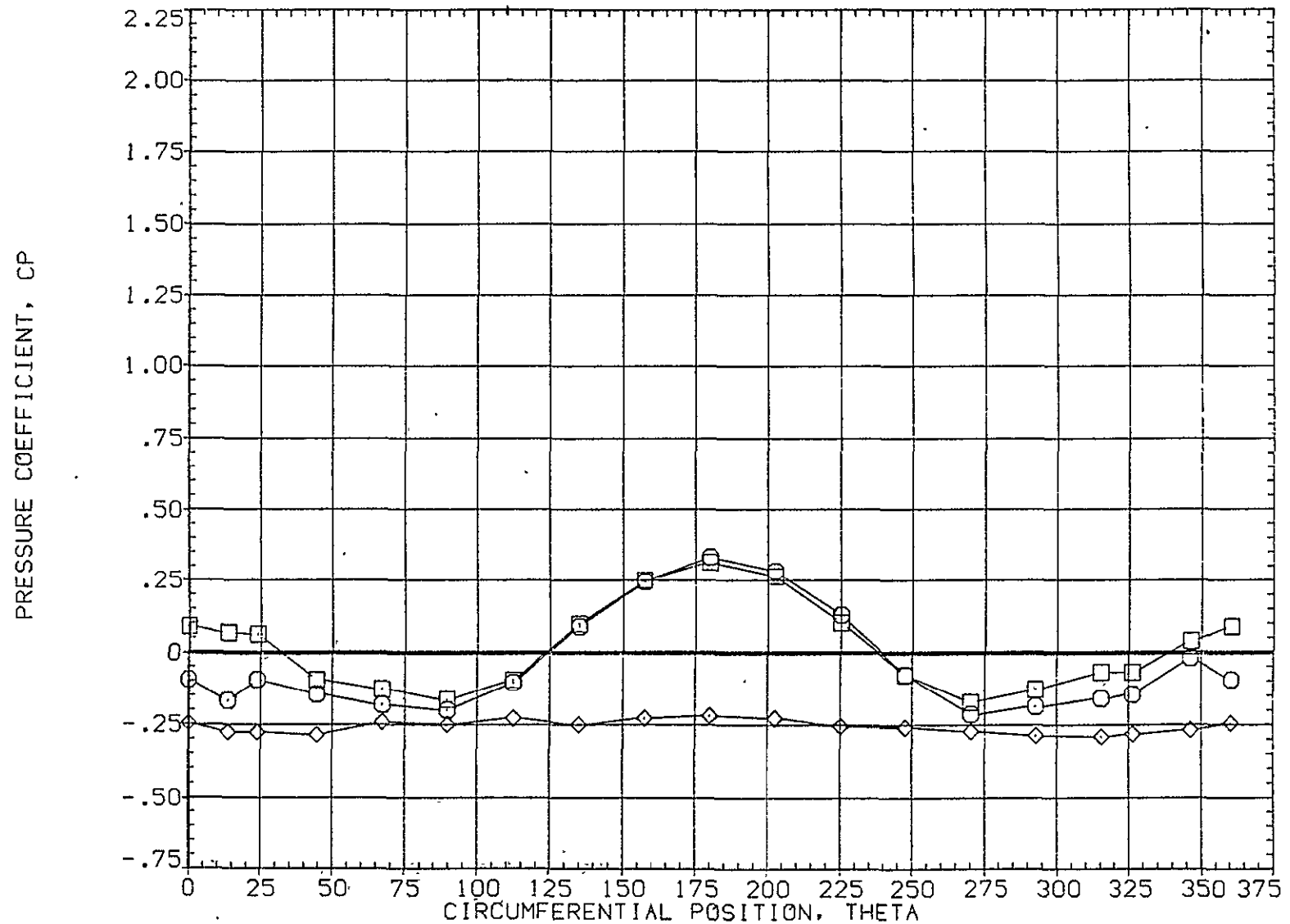


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A011)

SYMBOL	X/LB	ALPHA	MACH
○	.055	-8.380	1.960
□	.108		
◇	.162		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	.000
1.000		90.000

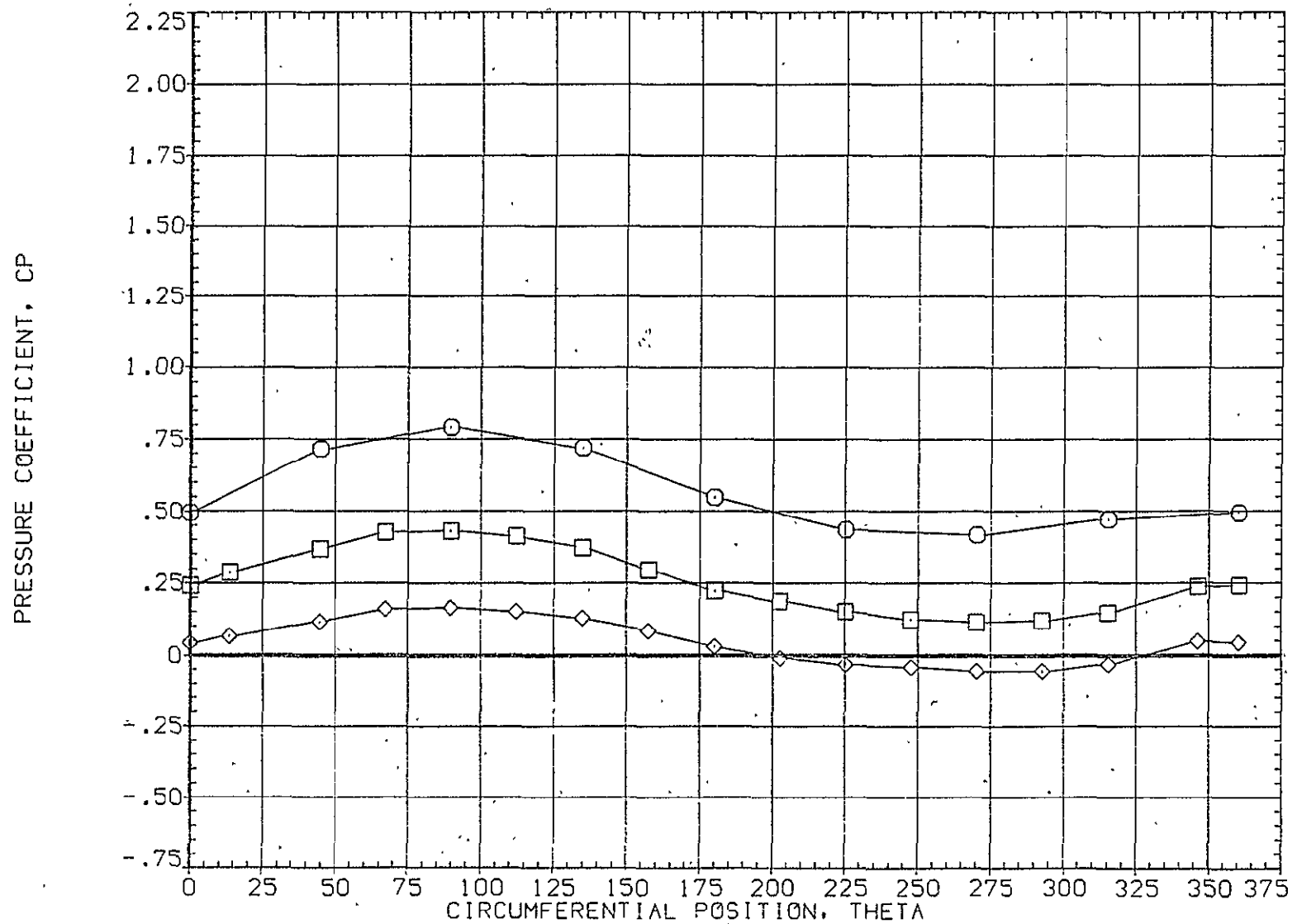


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER-ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

.216
.322
.518

ALPHA

-8.380

MACH

1.960

PARAMETRIC VALUES

BETA

.000

OFFSET

.000

MOUNT

1.000

PHI

90.000

PRESSURE COEFFICIENT, CP

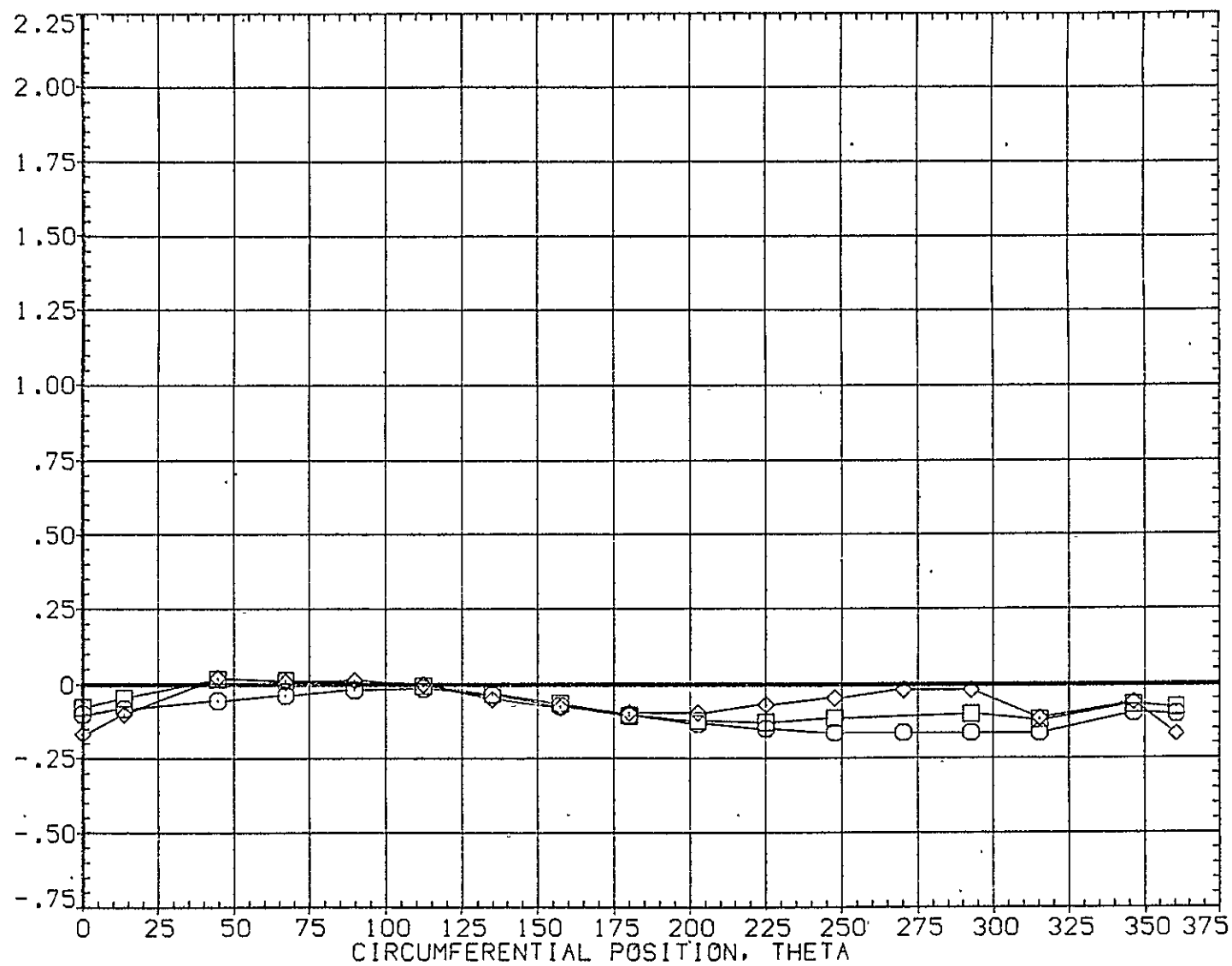


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

2

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A011)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-8.380	1.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	90.000
◇	.860						

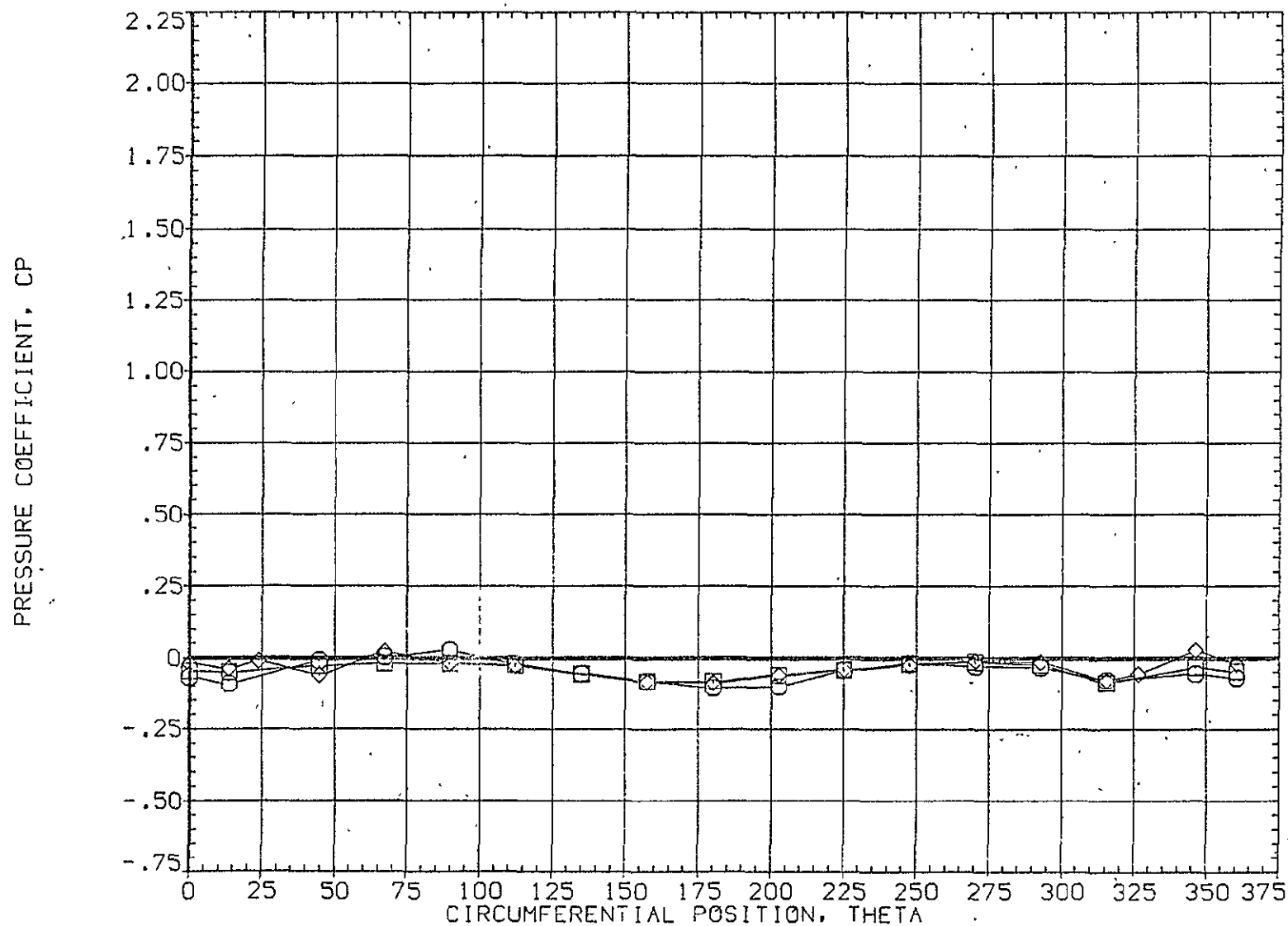


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	-8.380	1.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	OFFSET	
ANGLE	PHI	
.000	.000	.000
1.000	90.000	

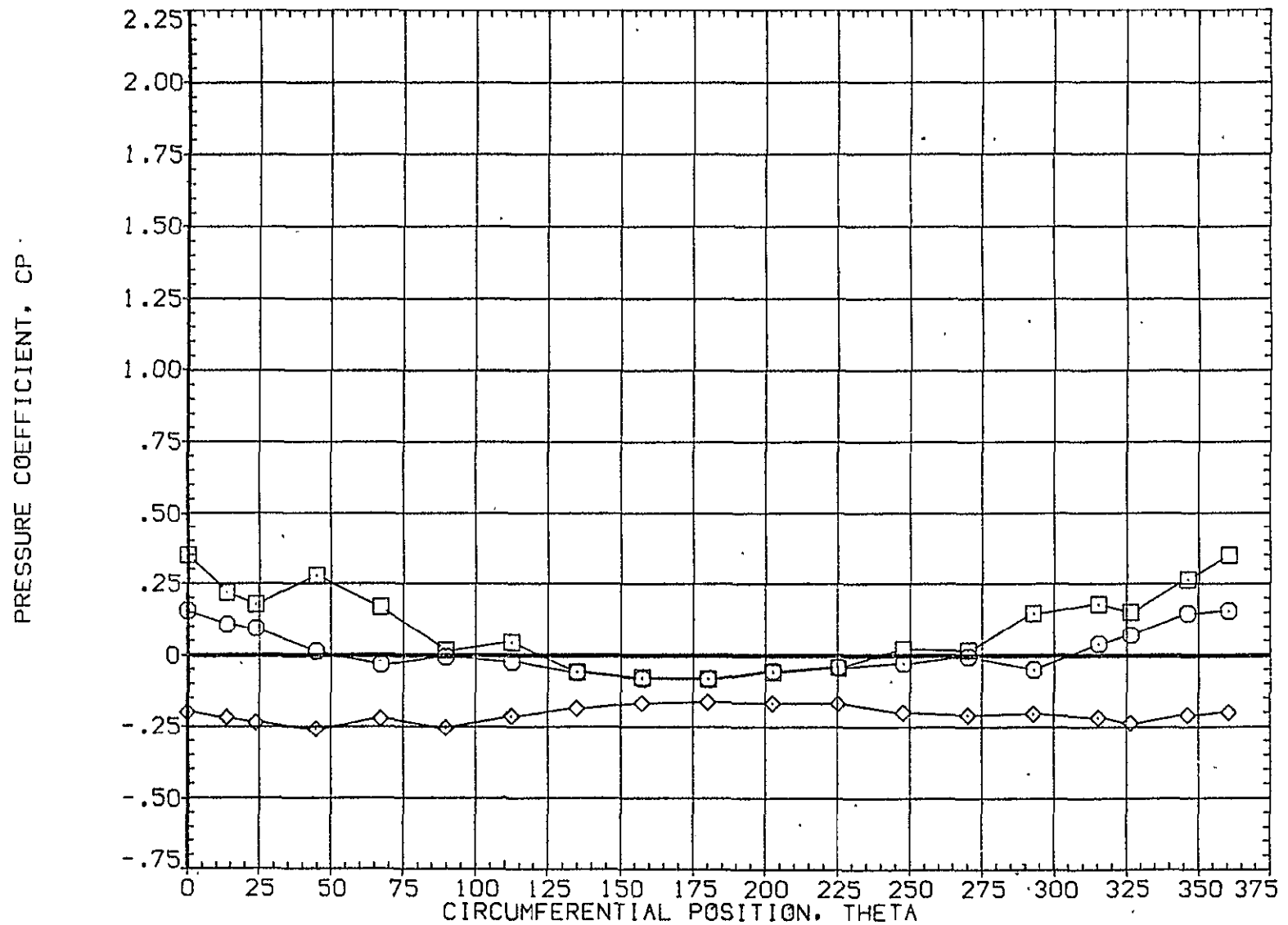


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A012)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-4.330	1.960	MOUNT	.000	PHI	.000
□	.108				1.000		90.000
◇	.162						

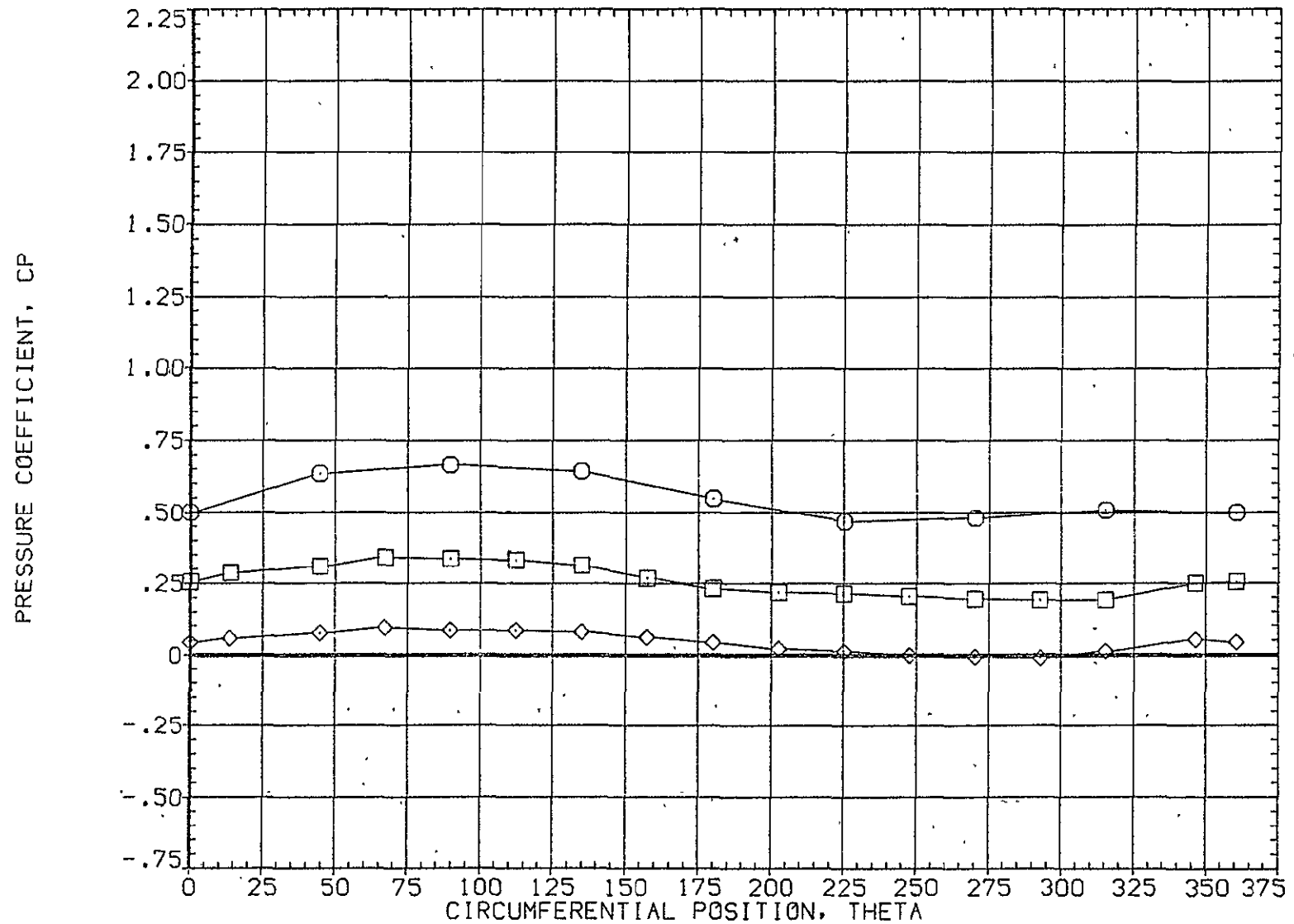


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 90.000
○	.216	-4.330	1.960			
□	.322					
◇	.518					

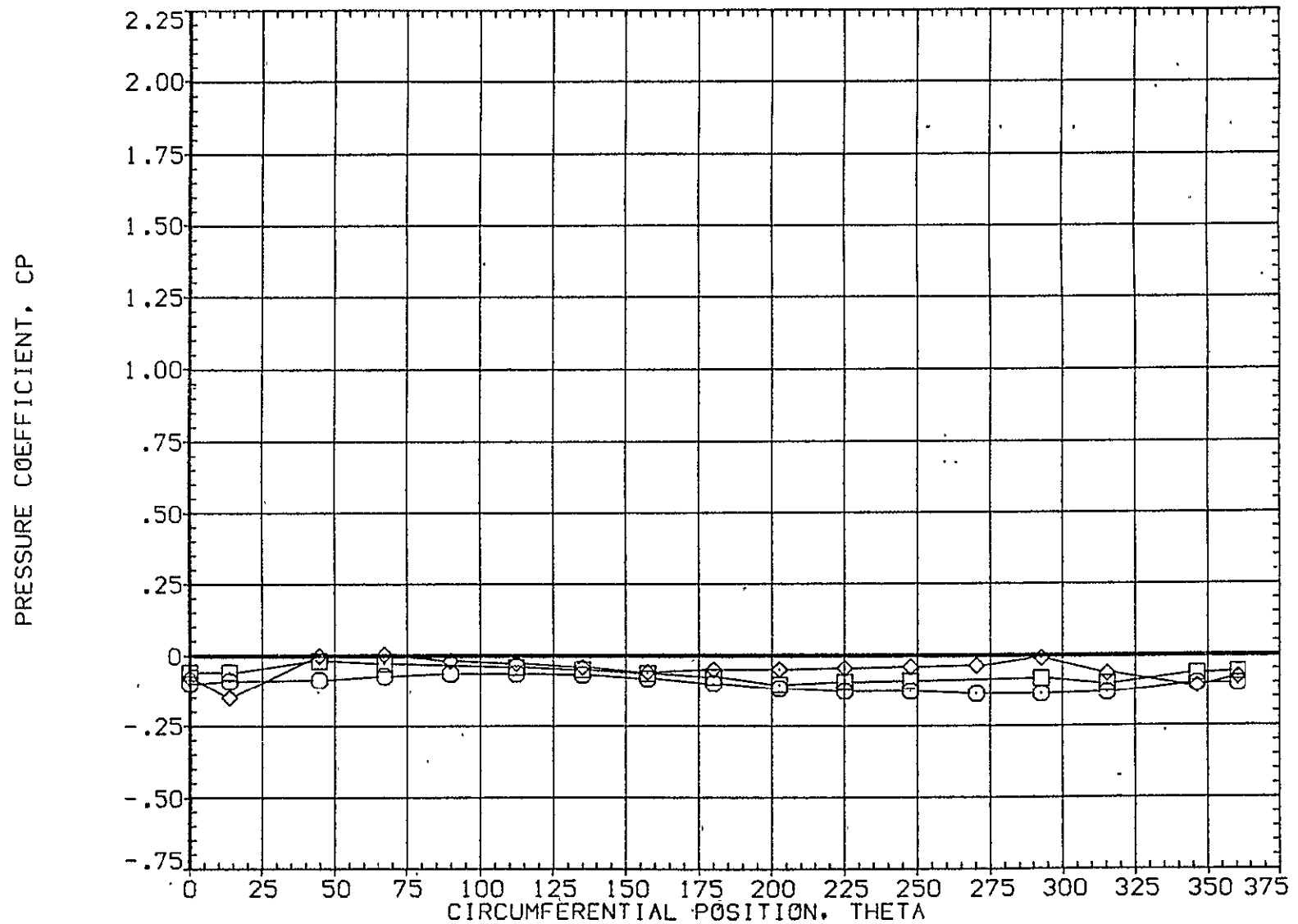


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(PIA012)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.610	-4.330	1.960	MOUNT.	.000	PHI	90.000
□	.735				1.000		
◇	.860						

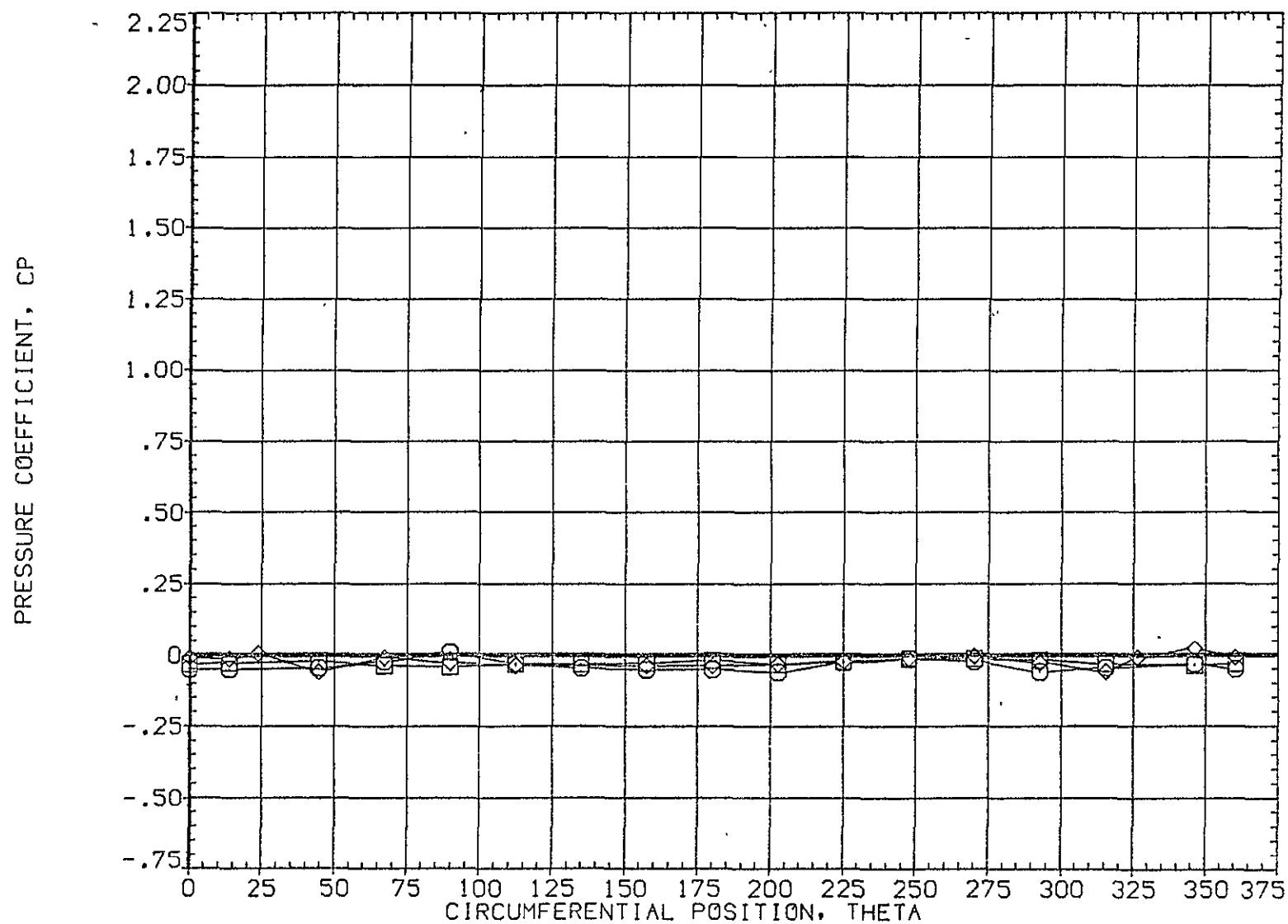


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.892	-4.330	1.960	.000	.000	.000
□	.923			1.000		90.000
◇	.954					

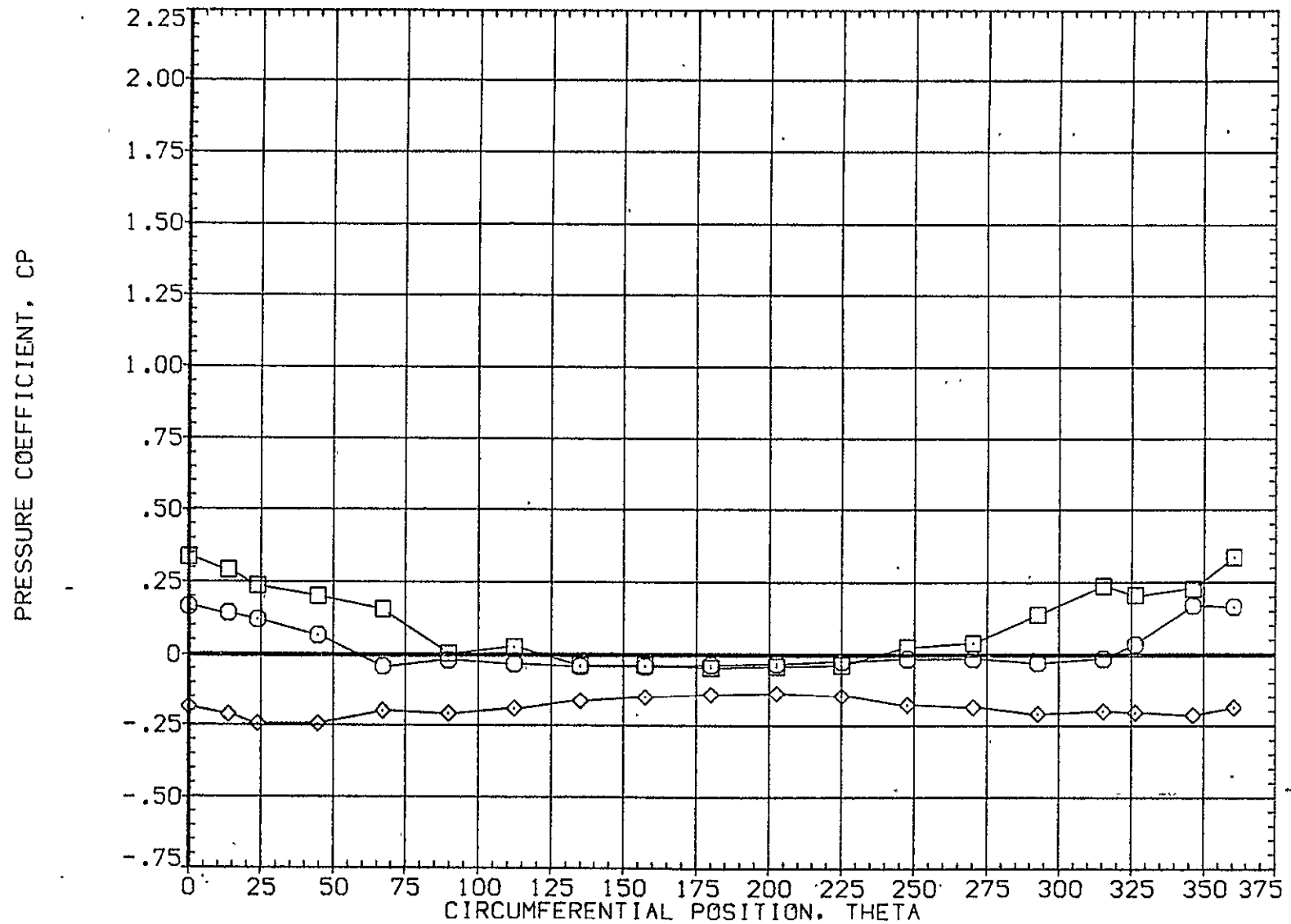


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A013)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-.280	1.970	.000			.000
□	.108			1.000	PHI		90.000
◇	.162						

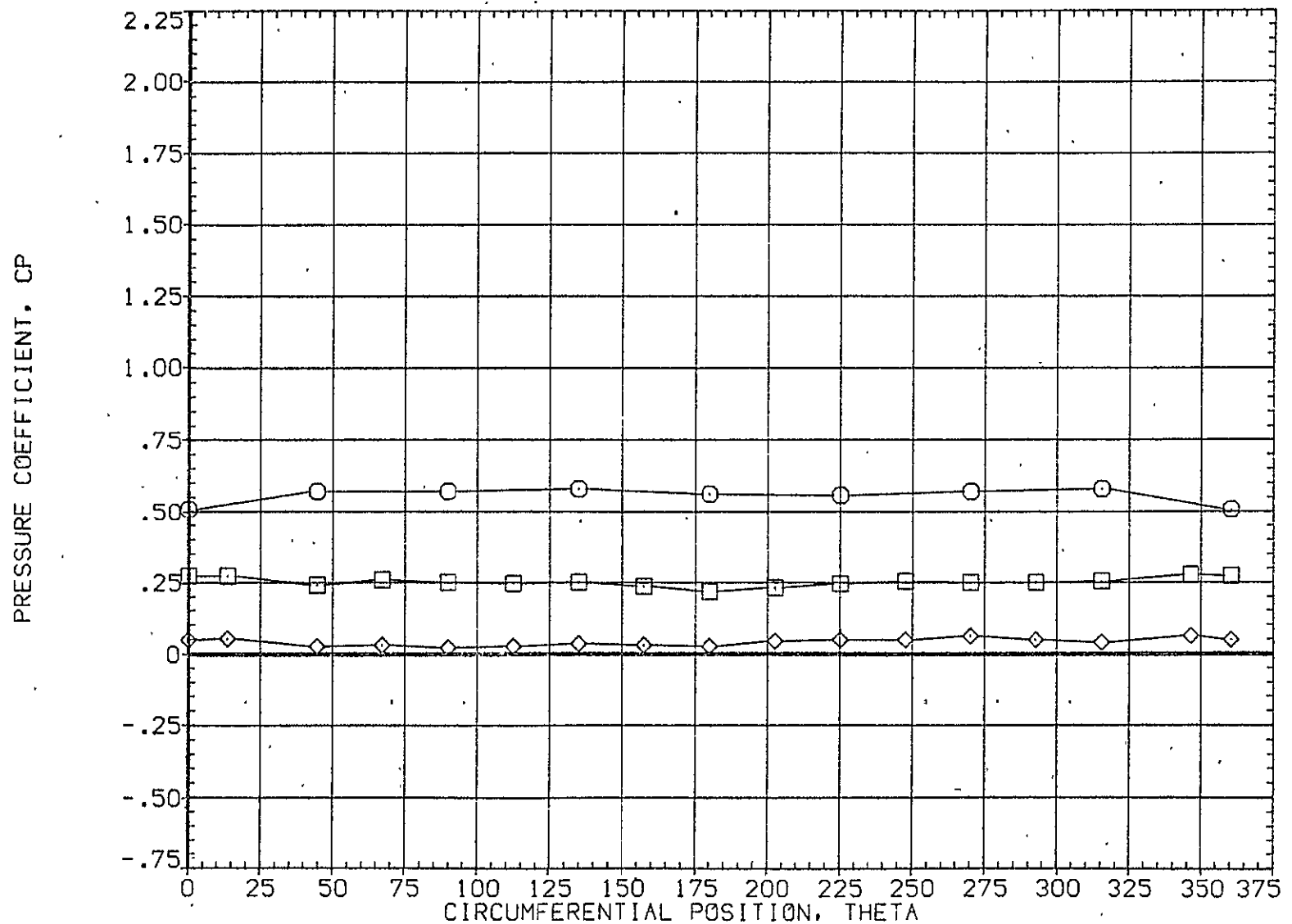


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-.280	1.970
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET .000
MOUNT	1.000	PHI 90.000

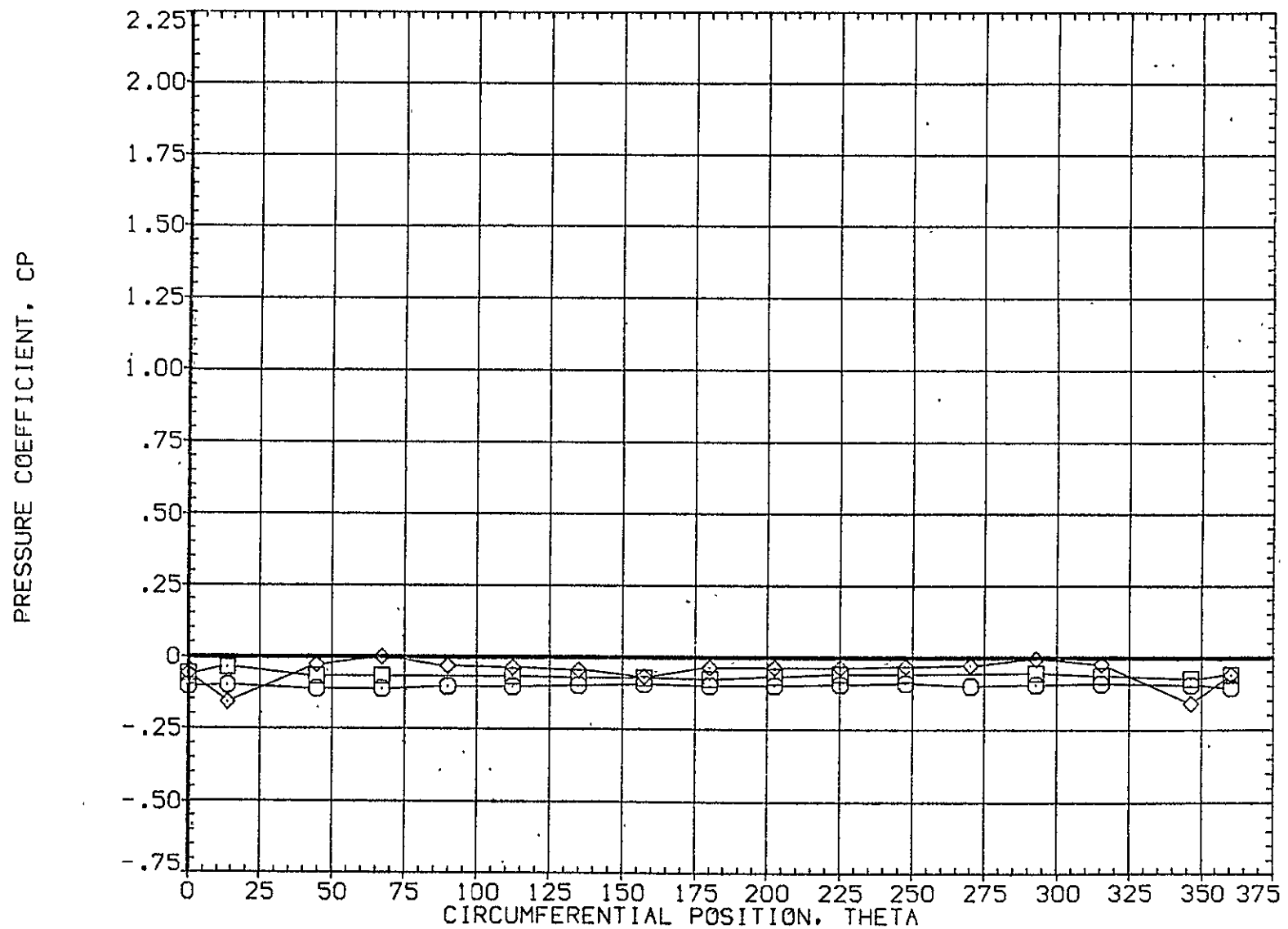


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A013)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	~.280	1.970	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	90.000
◇	.860						

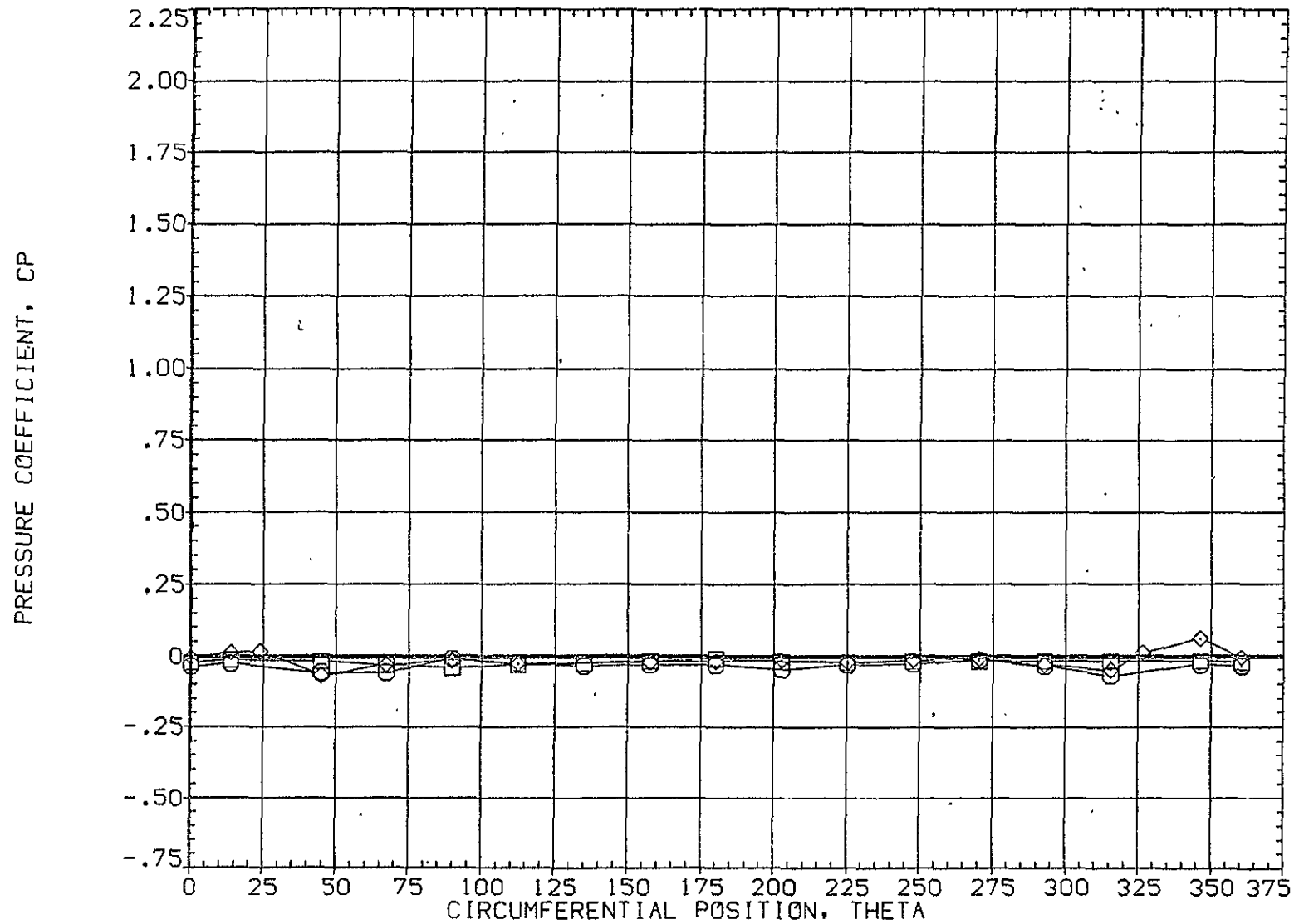


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-.280	1.970	MOUNT	.000	.000
□	.923				PHI	90.000
◇	.954					

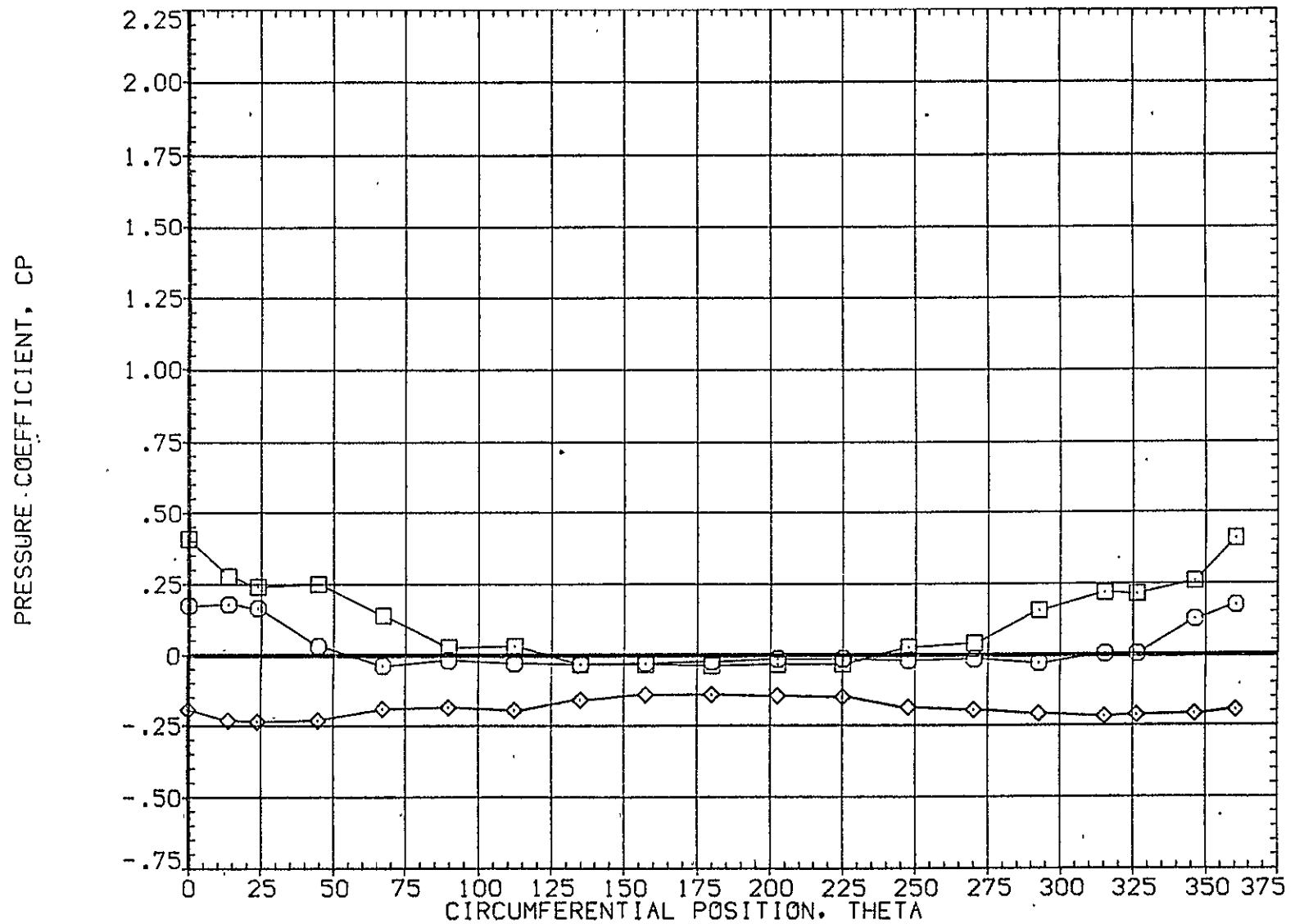


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A014)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	3.790	1.960	MOUNT	.000	PHI.	.000
□	.108				1.000		90.000
◇	.162						

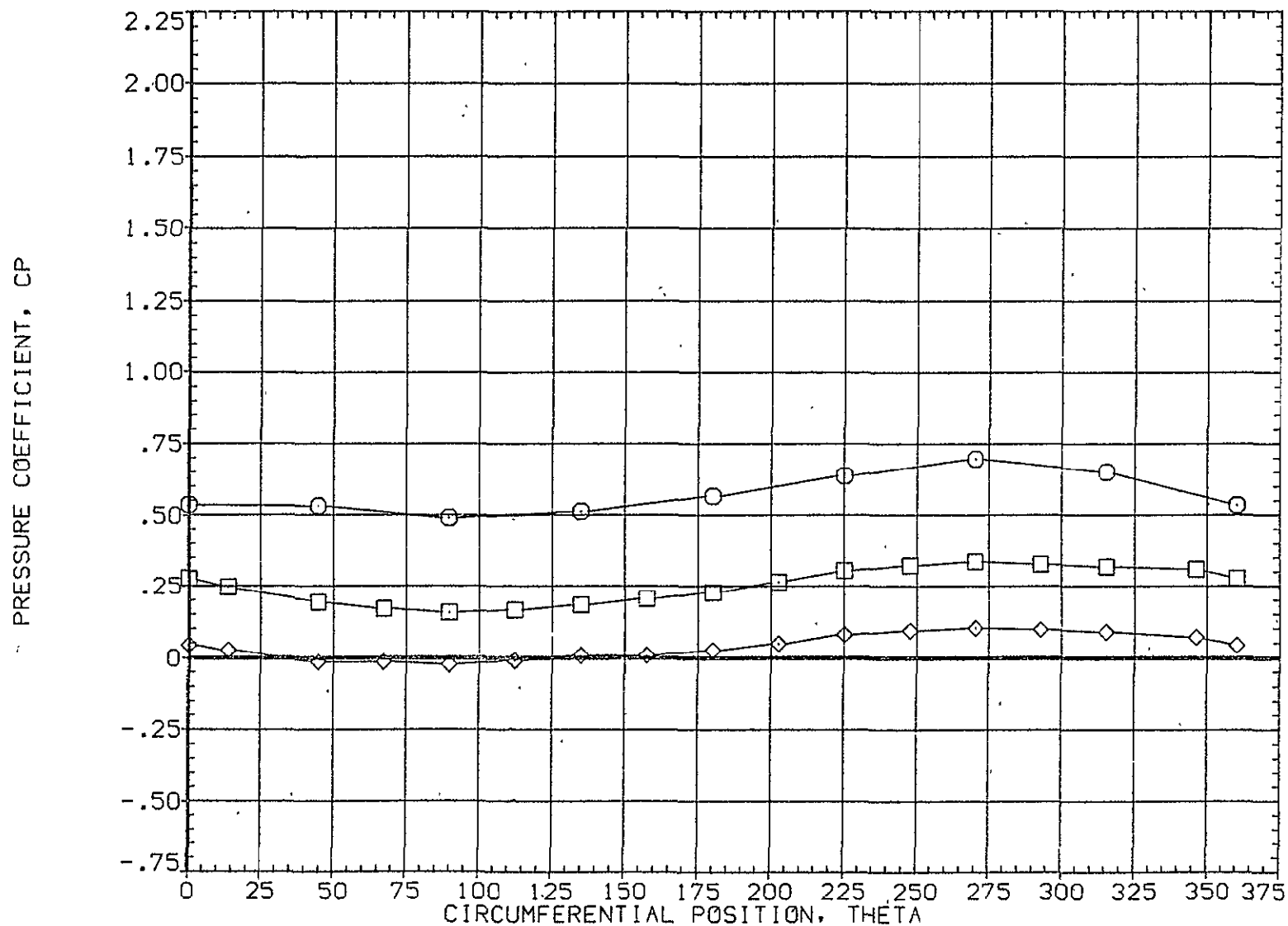


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	3.790	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	
1.000	90.000	

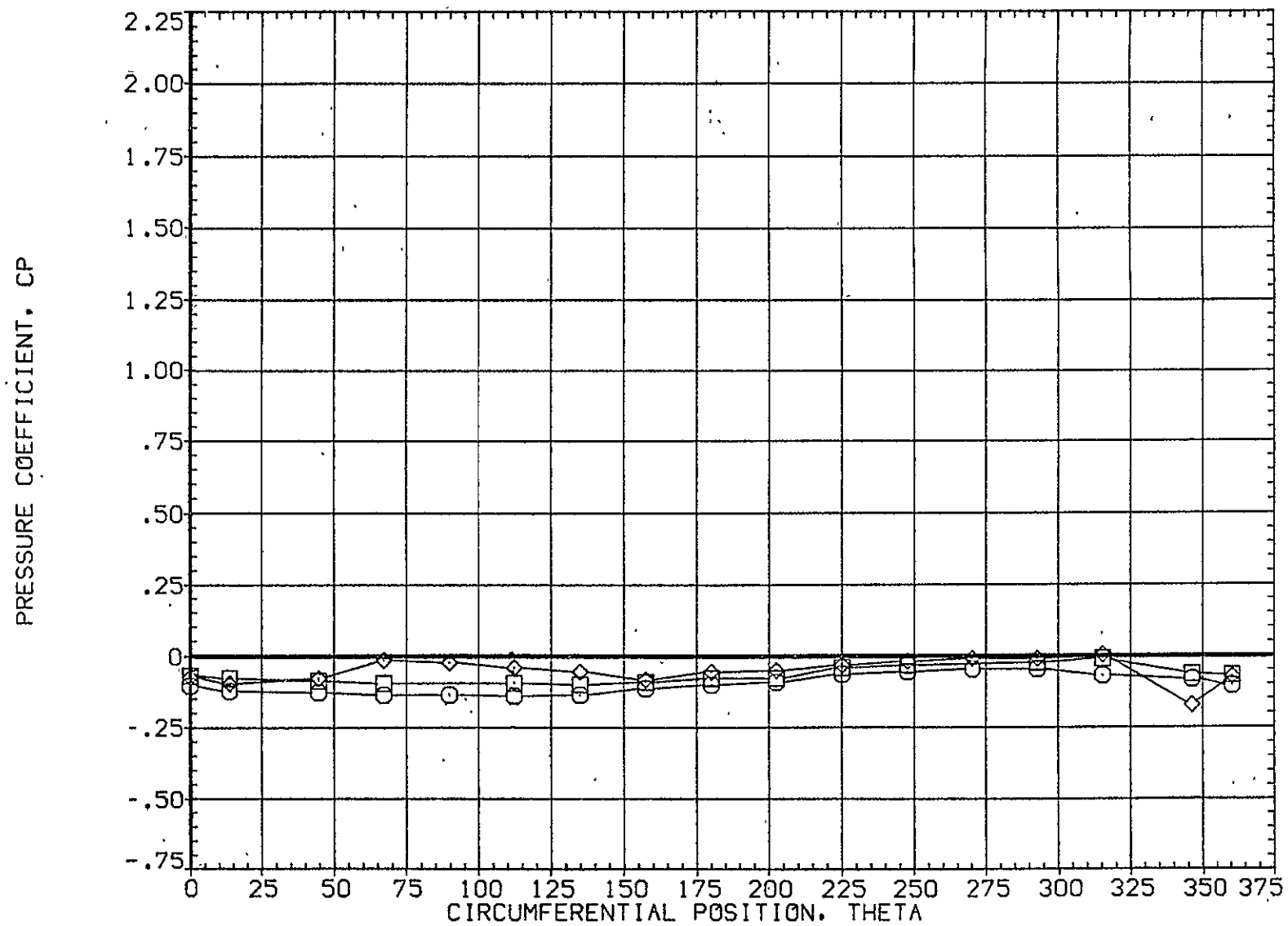


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A014)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	3.790	1.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	90.000
◇	.860						

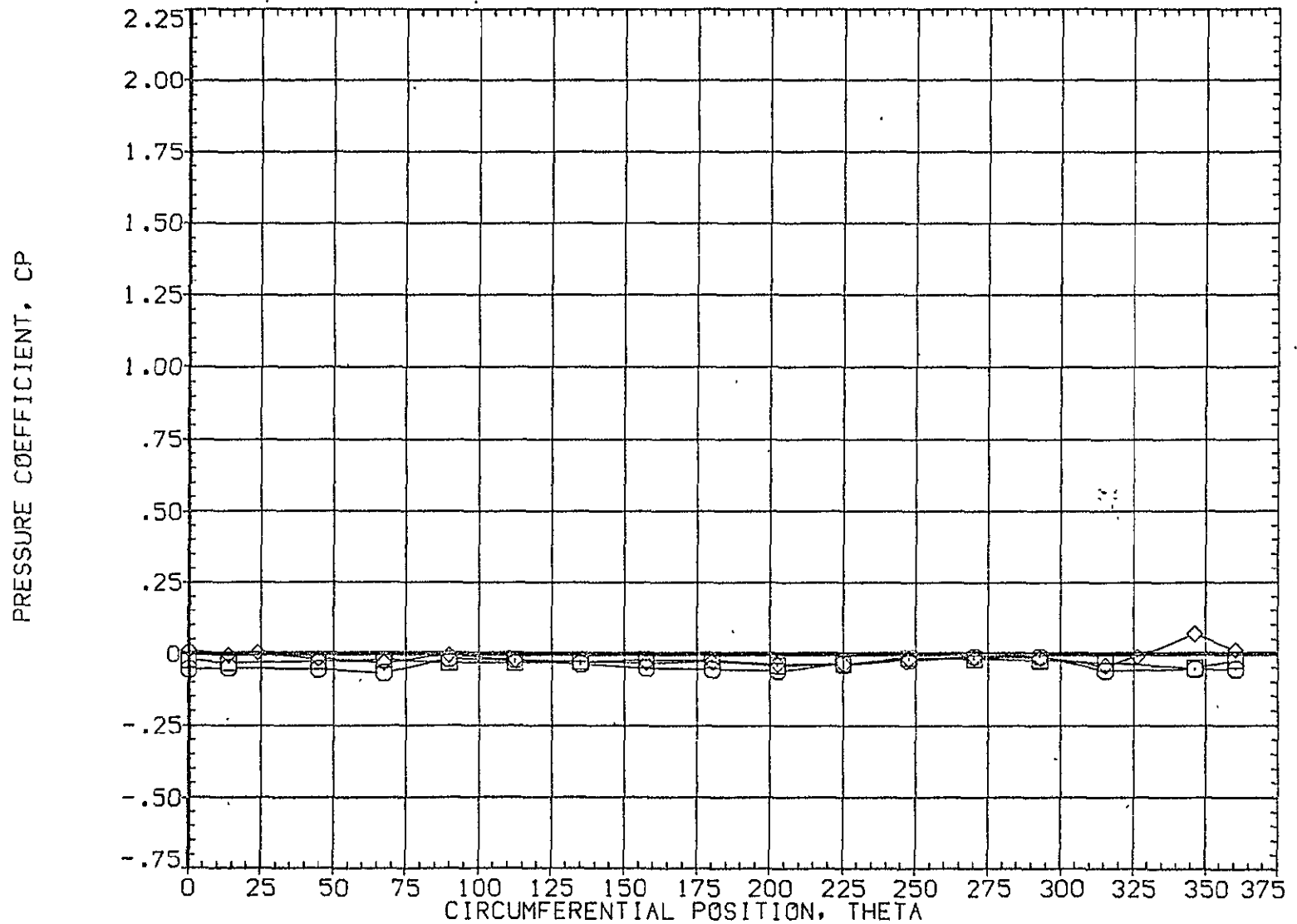


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 90.000
○	.892	3.790	1.960			
□	.923					
◇	.954					

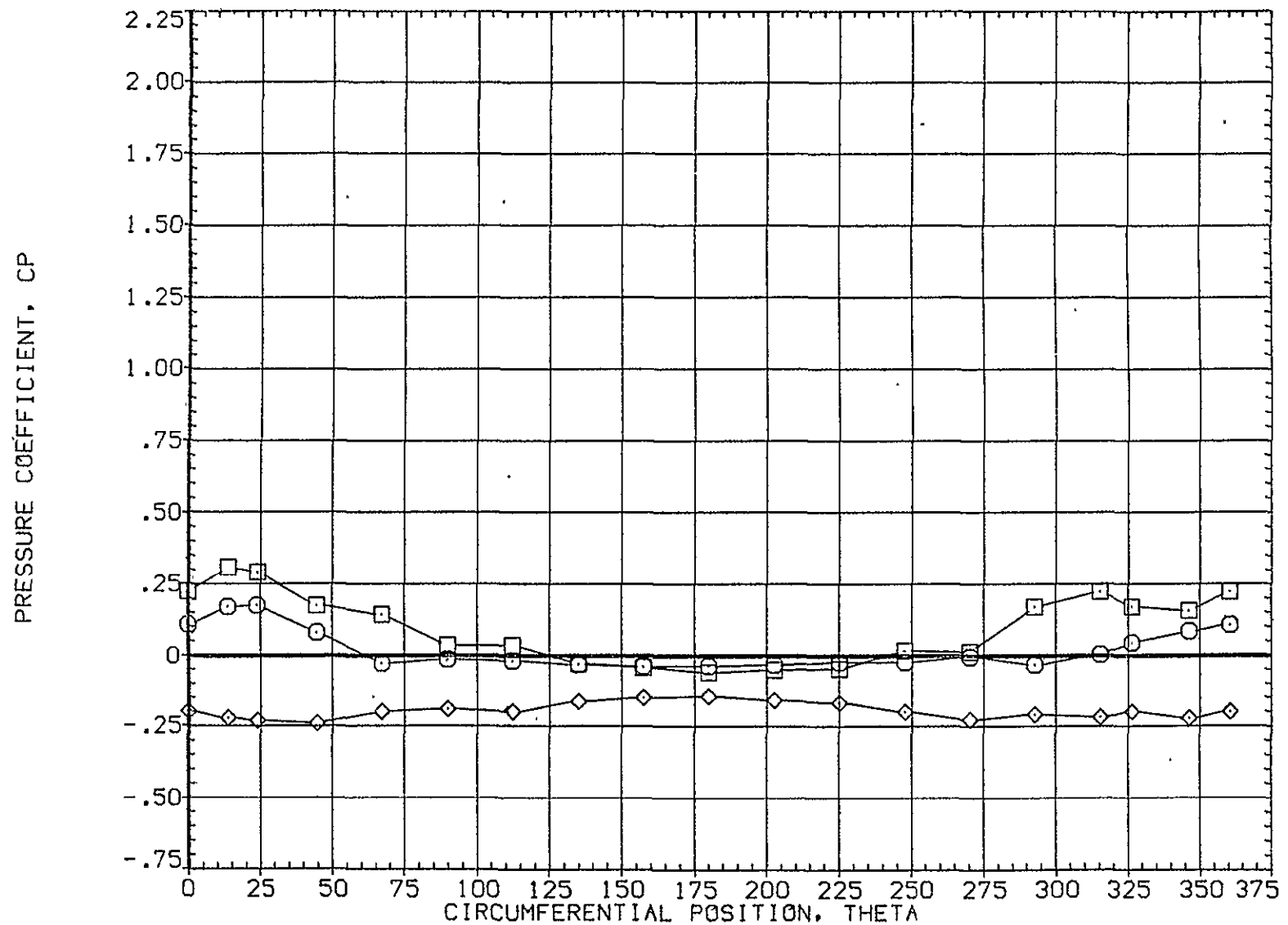


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A015)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	7.840	1.960	MOUNT	.000	PHI	.000
□	.108				1.000		90.000
◇	.162						

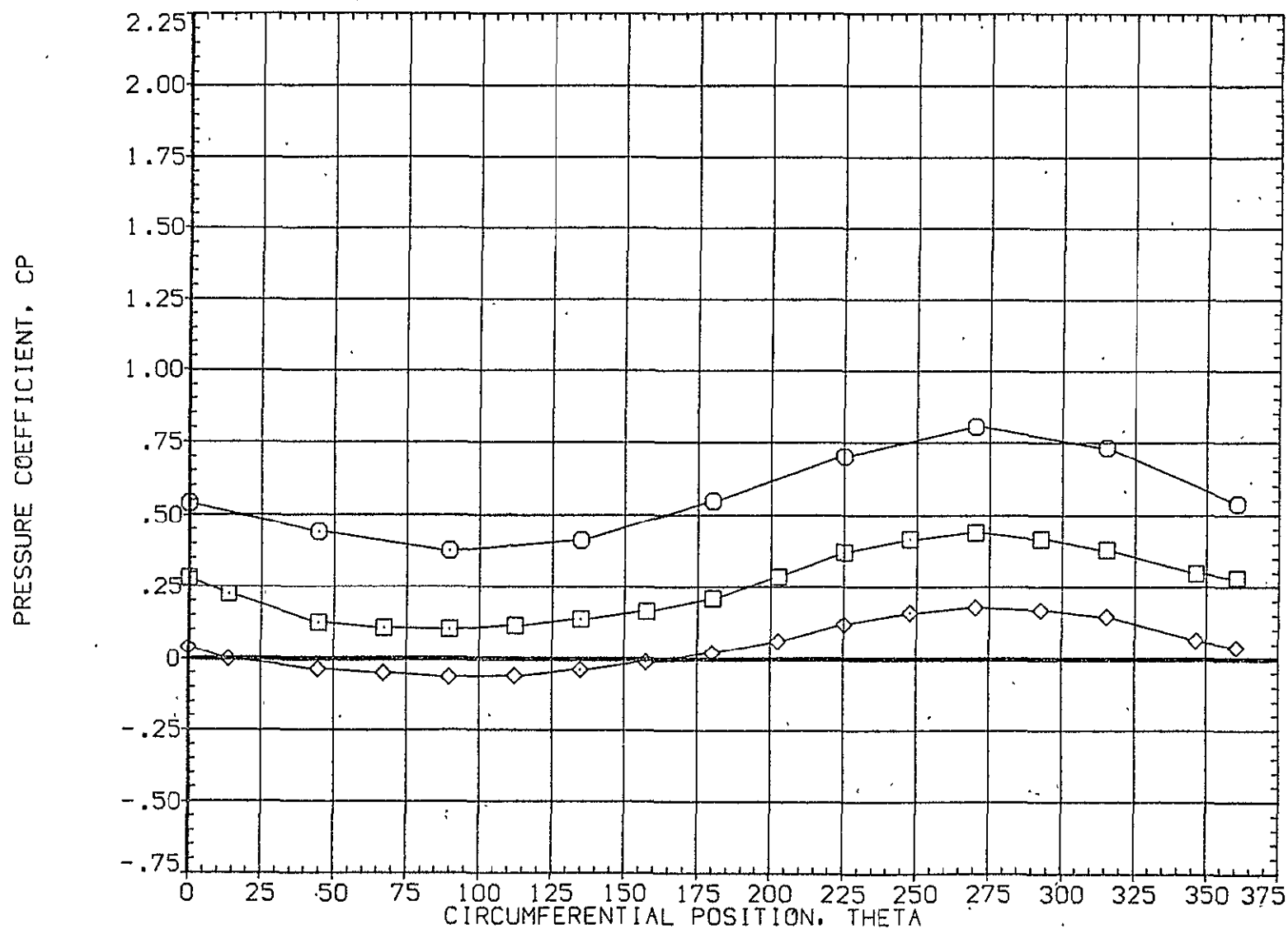


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	7.840	1.960
□	.322		
◇	.518		

BETA	PARAMETRIC VALUES	OFFSET
0.000		.000
1.000	PHI	90.000

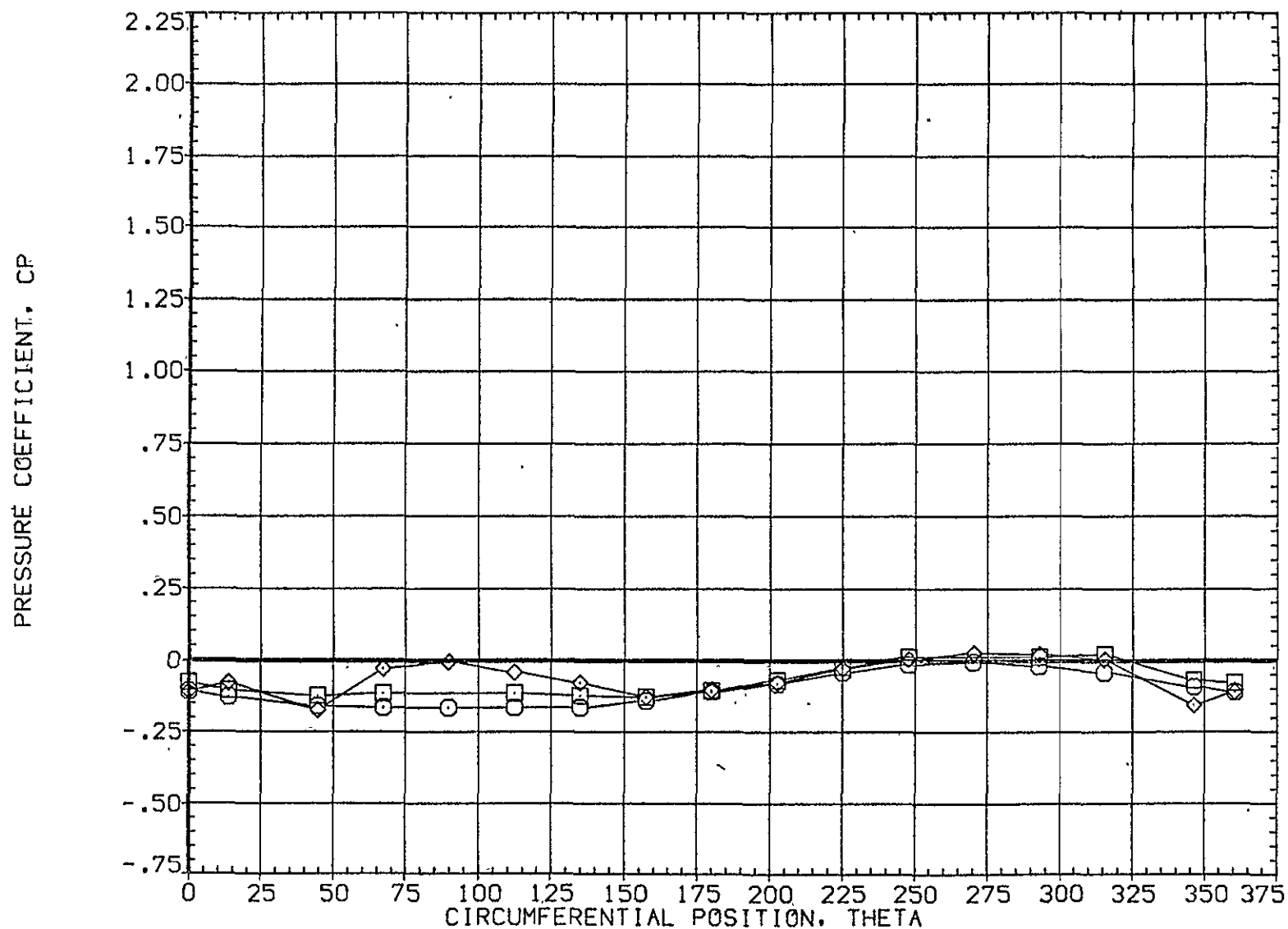


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A015)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	7.840	1.960	MOUNT	.000	PHI	.000
□	.735				1.000		90.000
◇	.860						

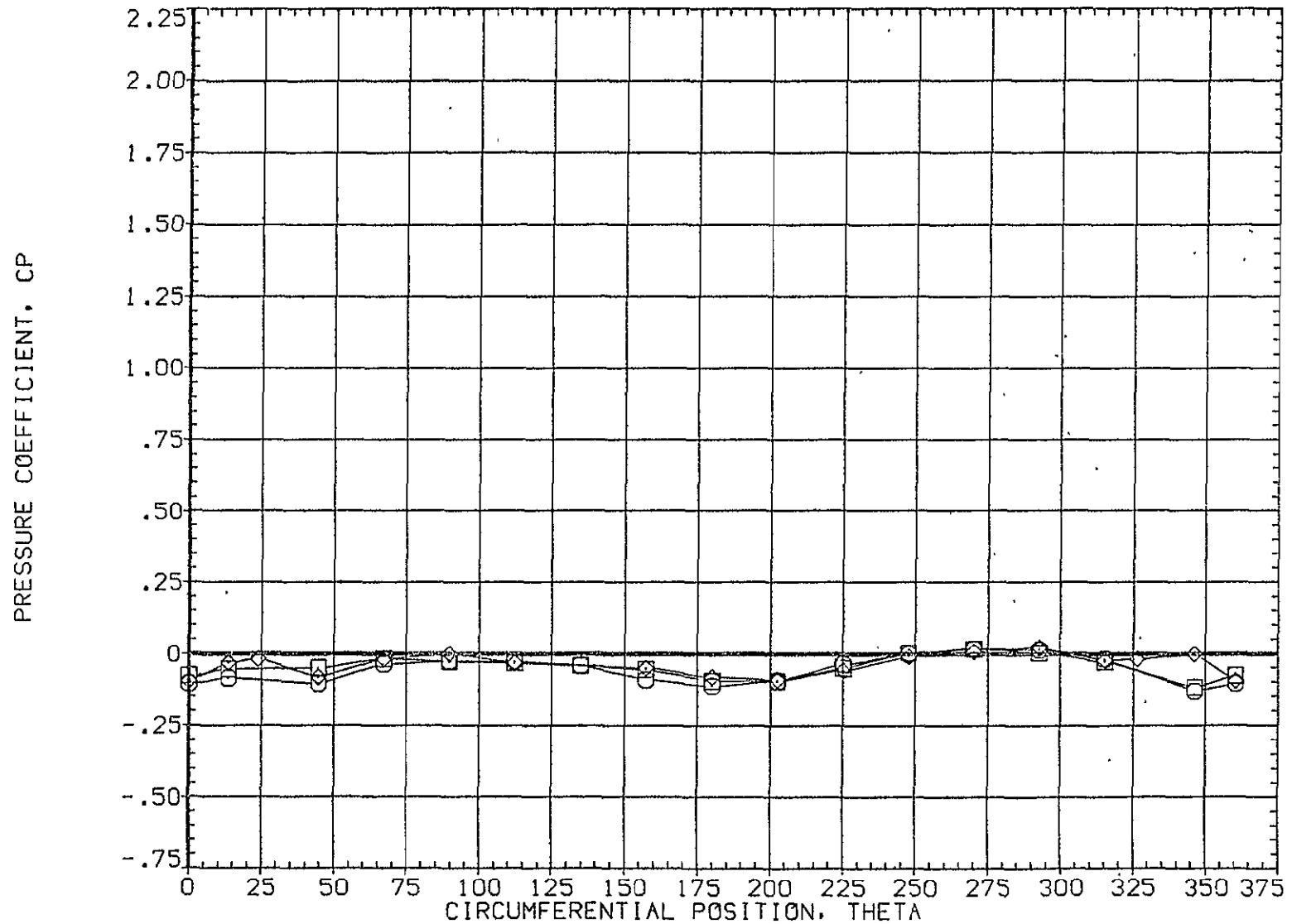


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	PHI
○	.892	7.840	1.960	.000	.000	.000
□	.923			1.000		
◇	.954					90.000

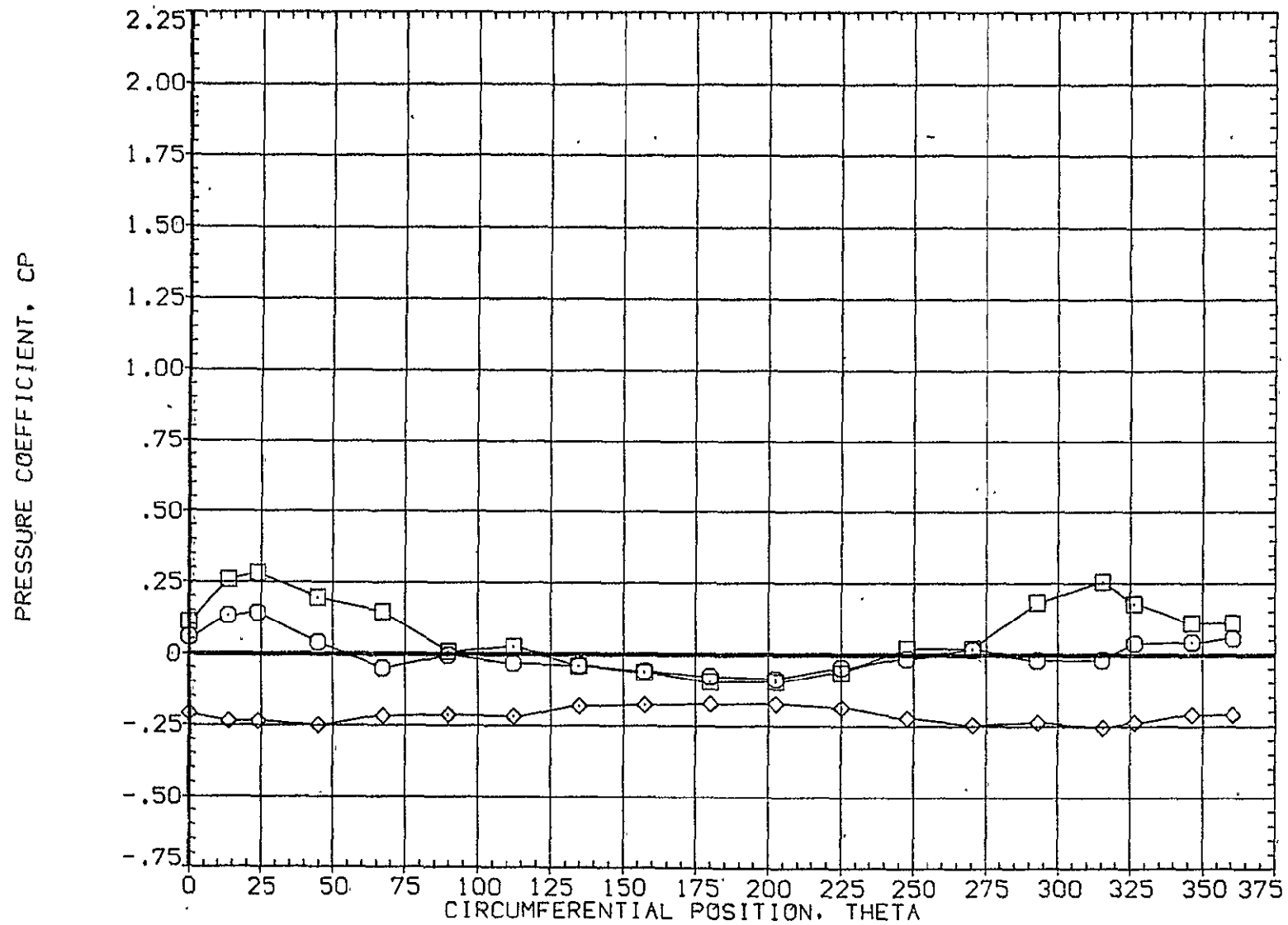


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A016)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	12.550	1.960	MOUNT	.000	PHI	90.000
□	.108				1.000		
◇	.162						

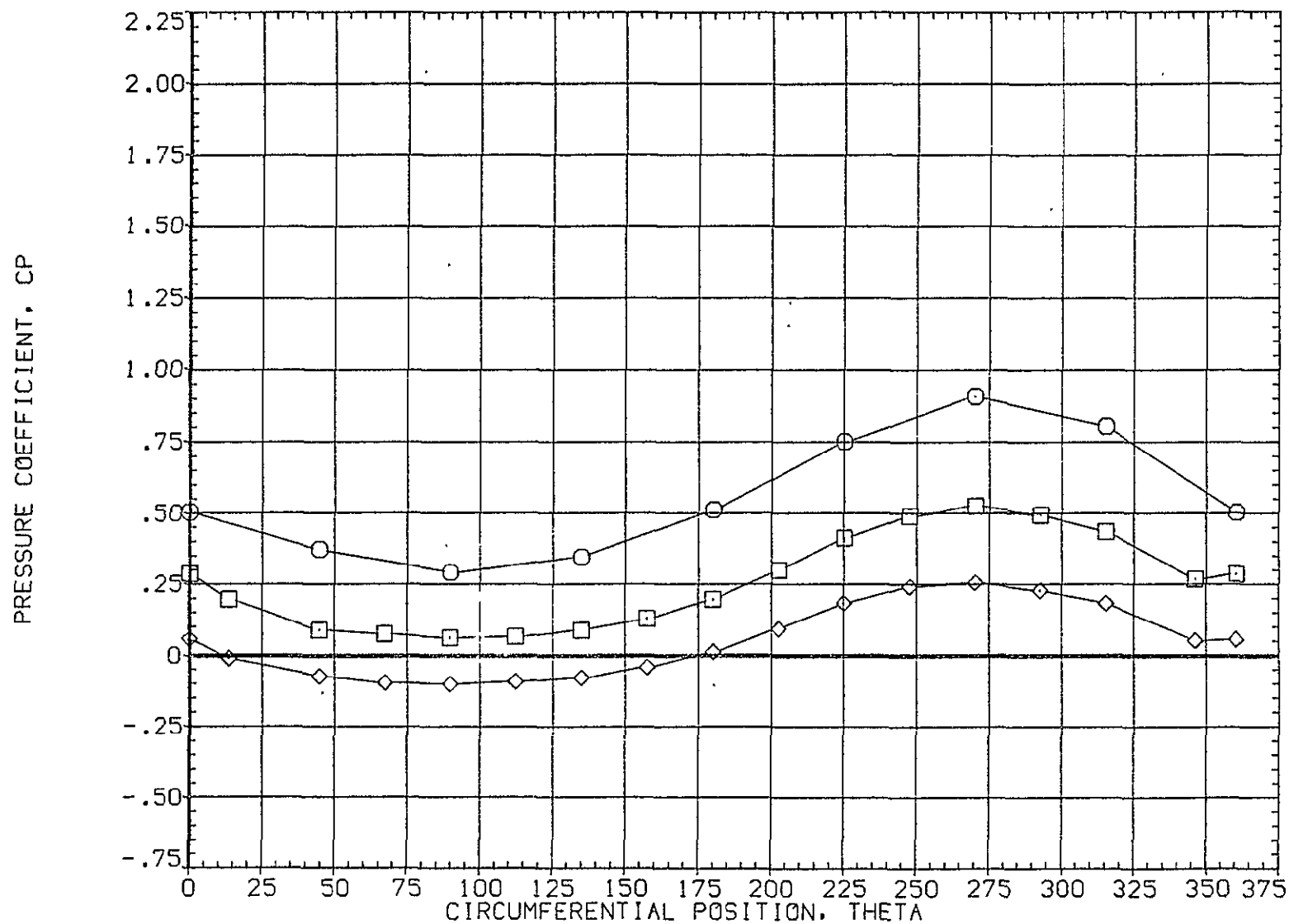


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.216	12.550	1.960	.000	20.000		
□	.322			1.000	90.000		
◇	.518						

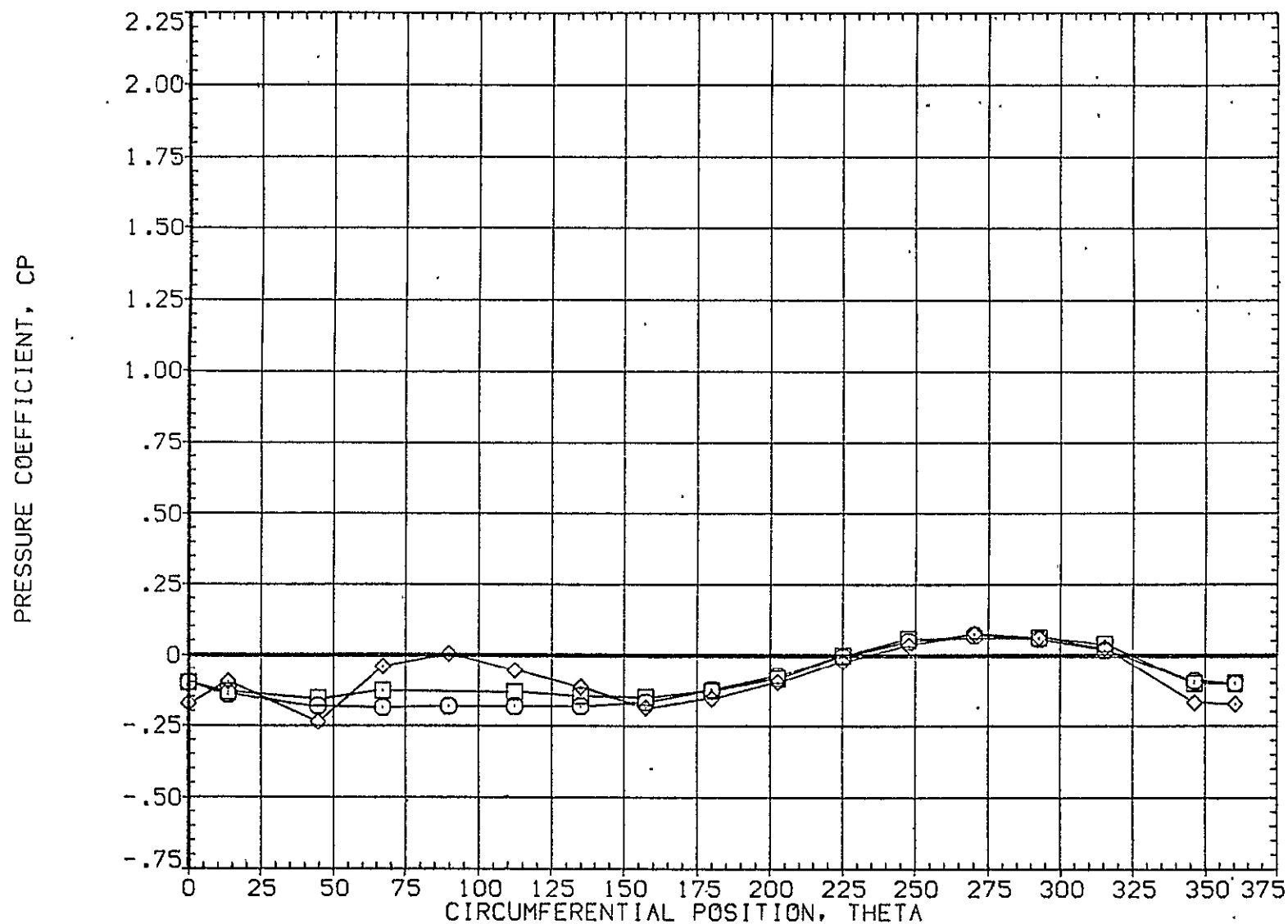


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A016)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES				
	○	.610	12.550	1.960	BETA	.000	OFFSET	20.000
	□	.735			MOUNT	1.000	PHI	90.000
◇	.860							

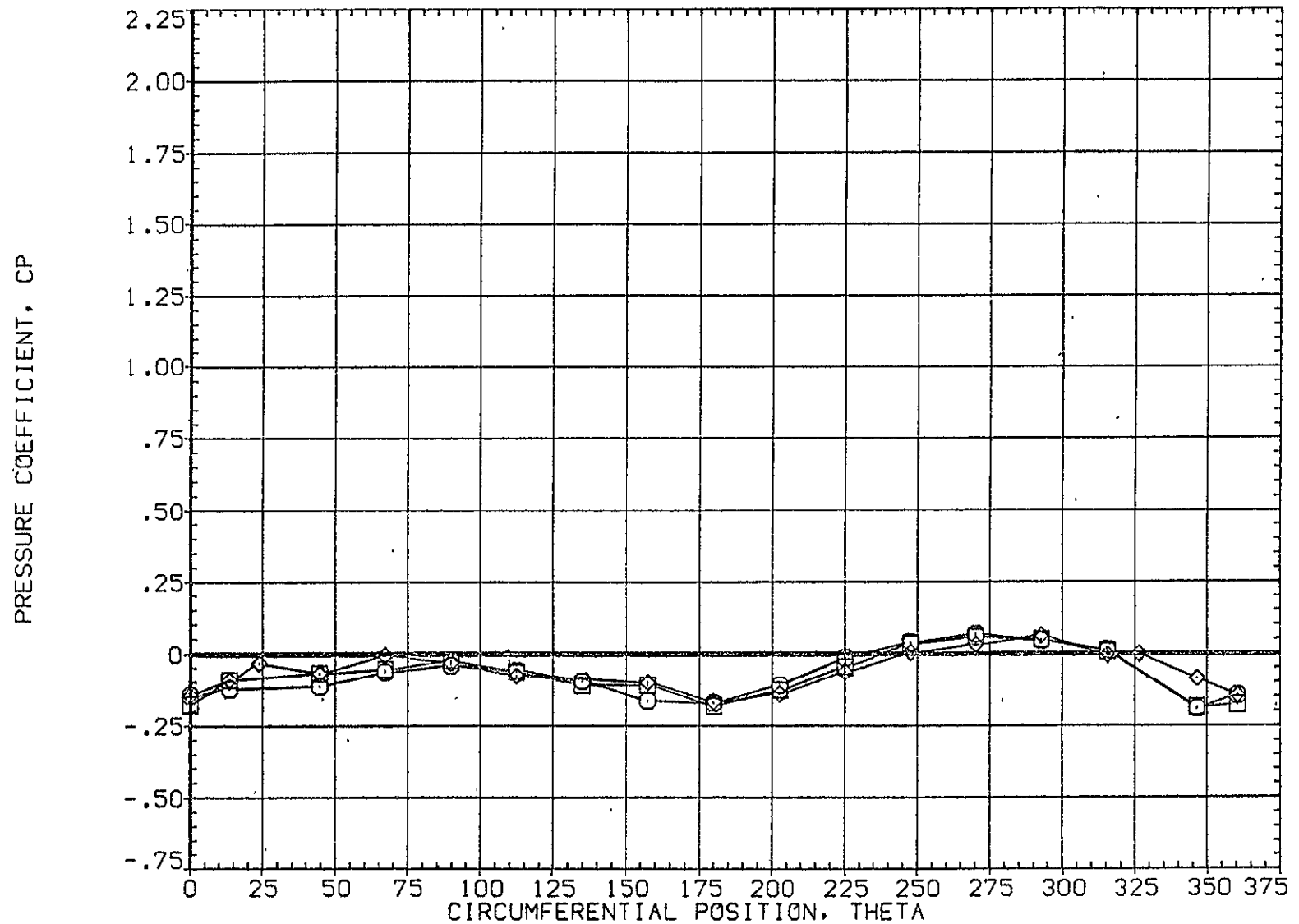


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA MOUNT	.000 1.000	OFFSET PHI	20.000 90.000
○	.892	12.550	1.960				
□	.923						
◇	.954						

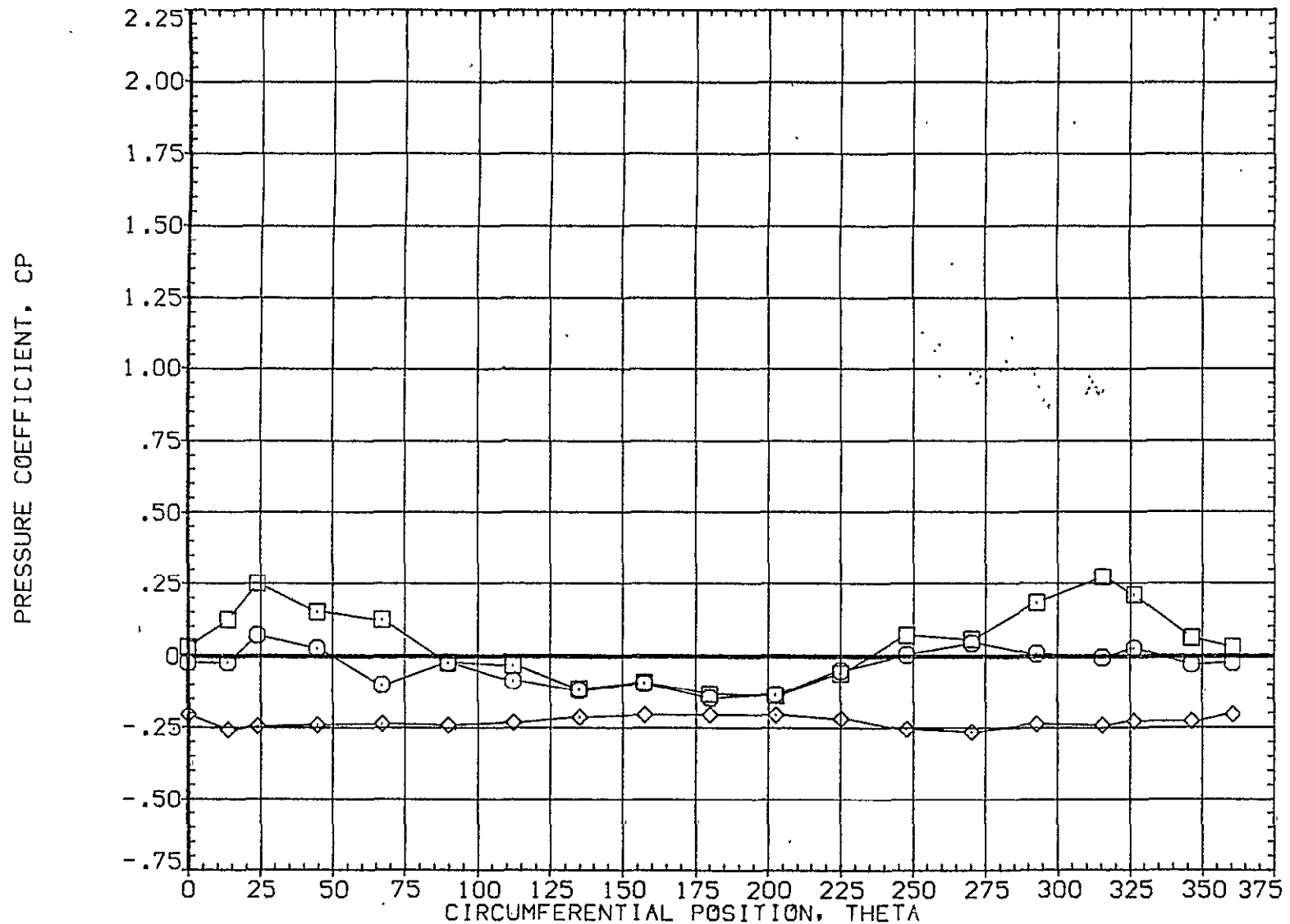


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A017)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	16.660	1.960	MOUNT	1.000	PHI	90.000
□	.108						
◇	.162						

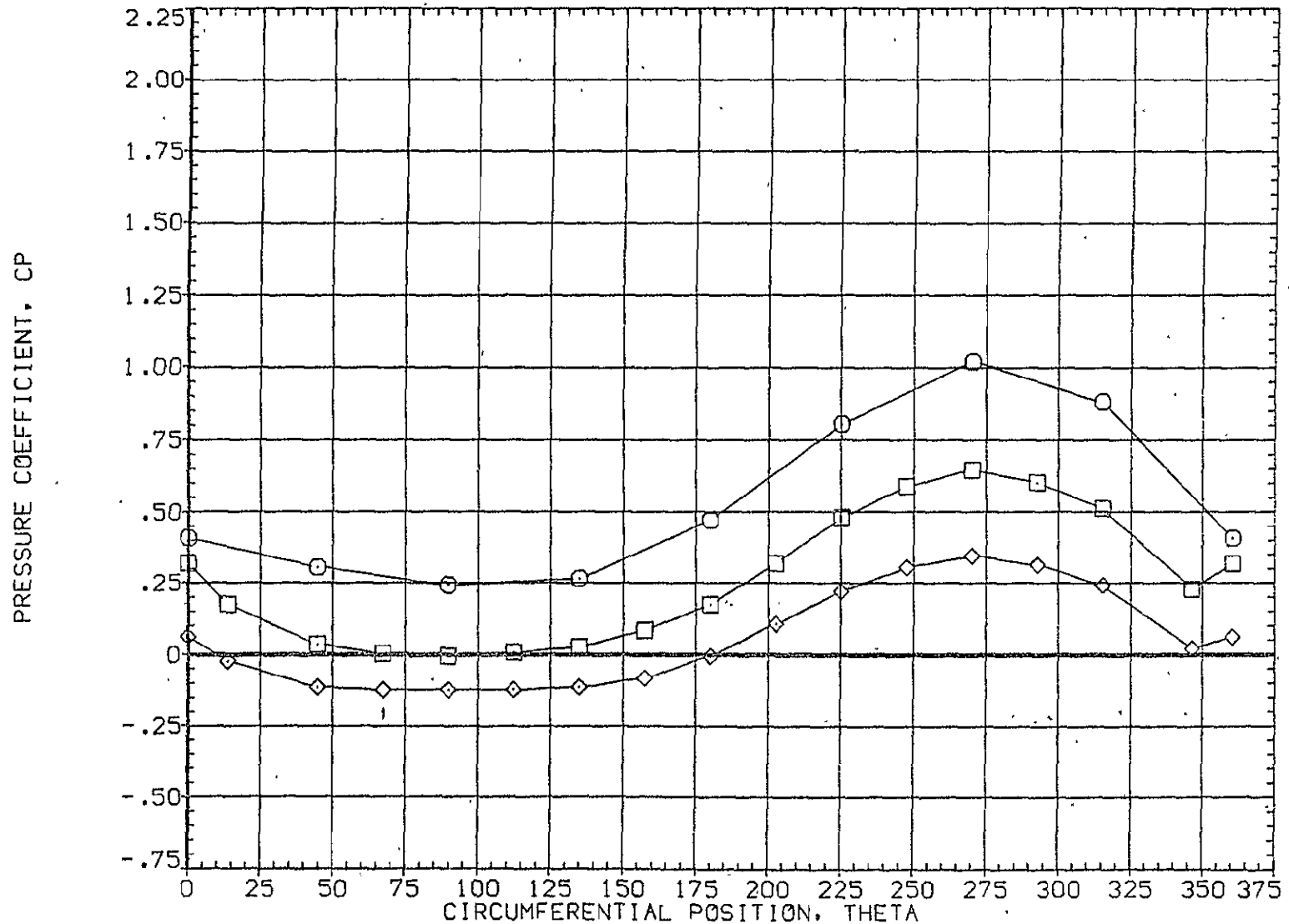


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	16.660	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	90.000

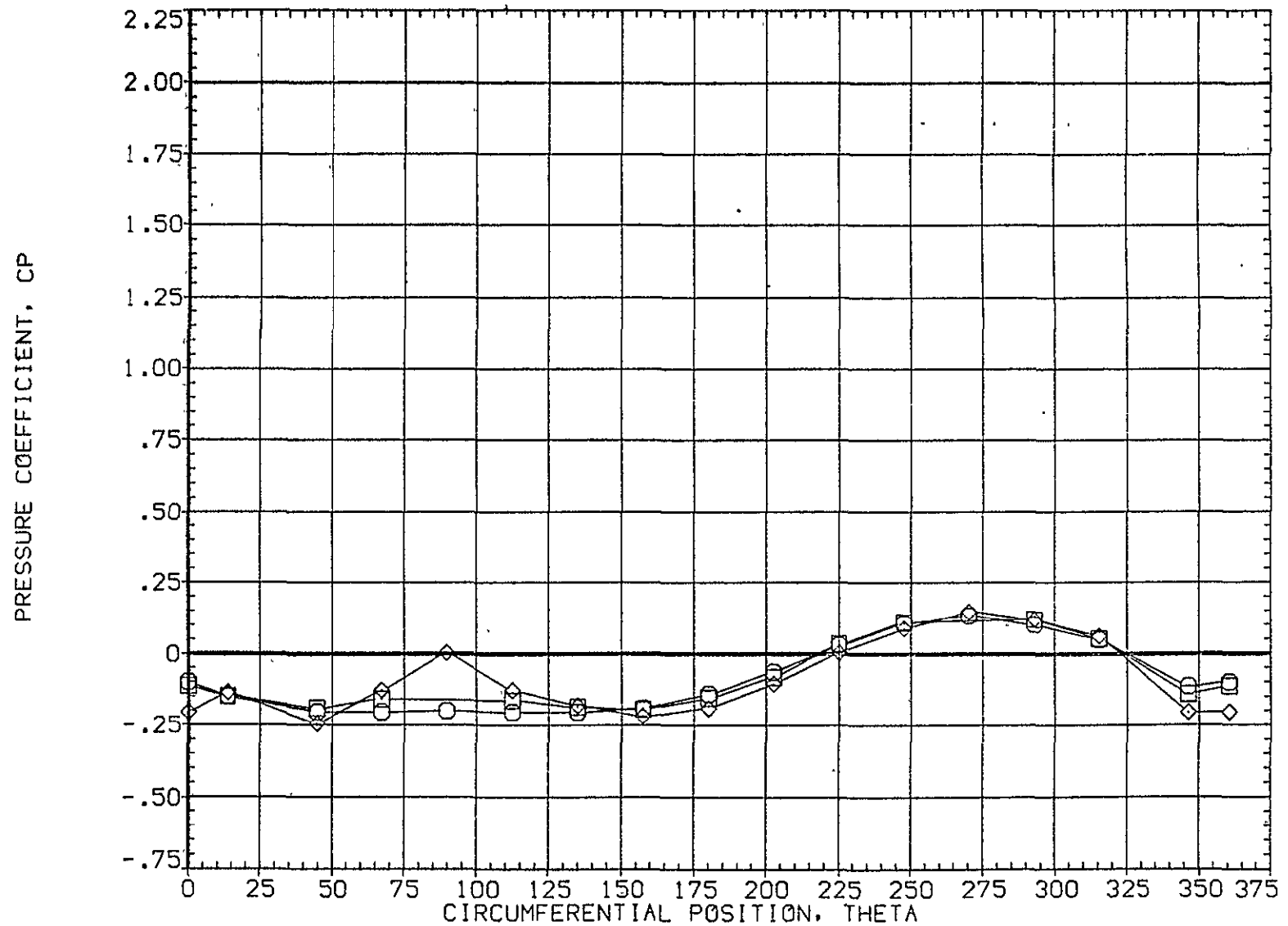


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A017)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	16.660	1.960	MOUNT	.000	PHI	90.000
□	.735				1.000		
◇	.860						

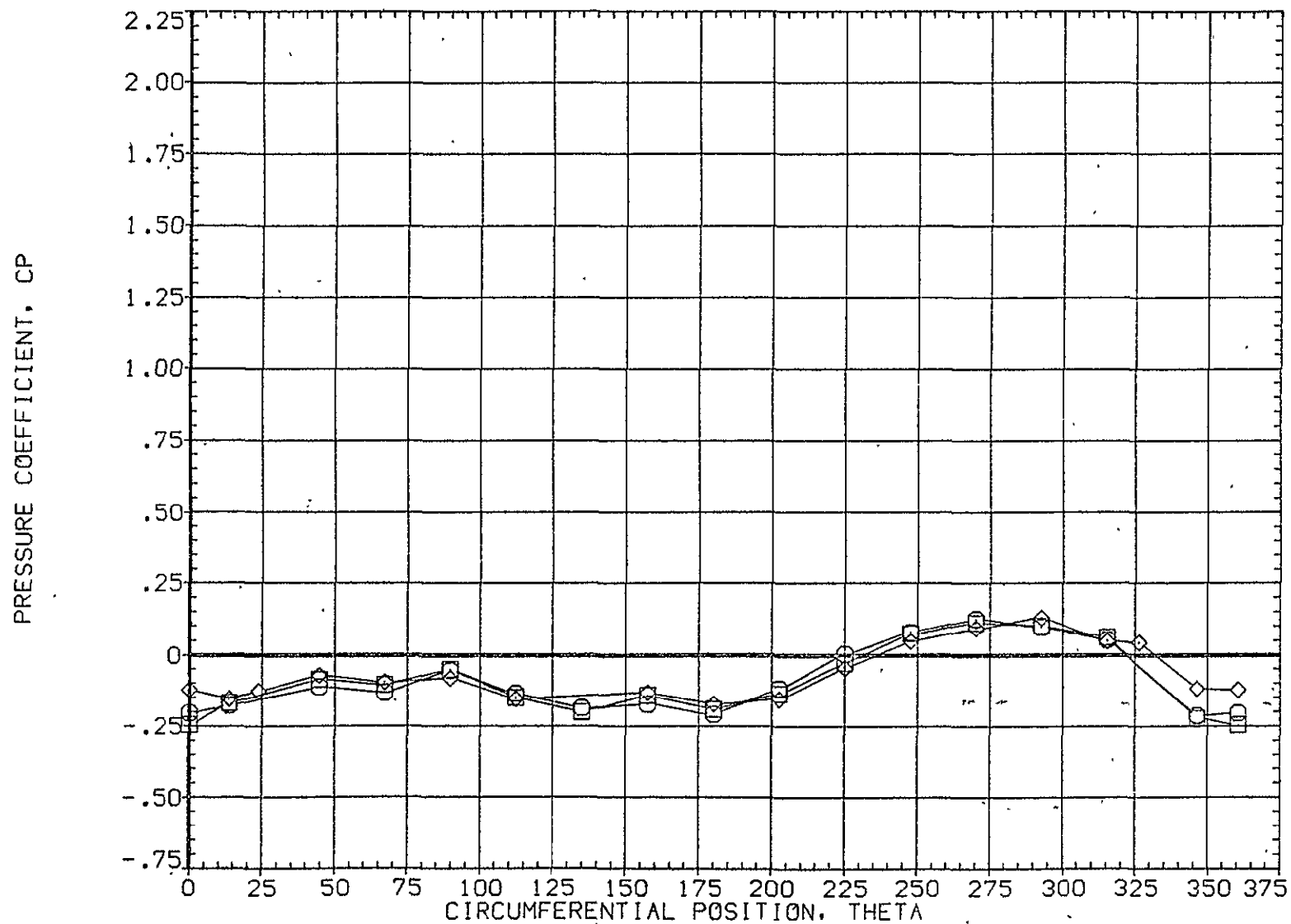


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

BETA

PARAMETRIC VALUES

MOUNT

.000

OFFSET

20.000

1.000

PHI

90.000

PRESSURE COEFFICIENT, CP

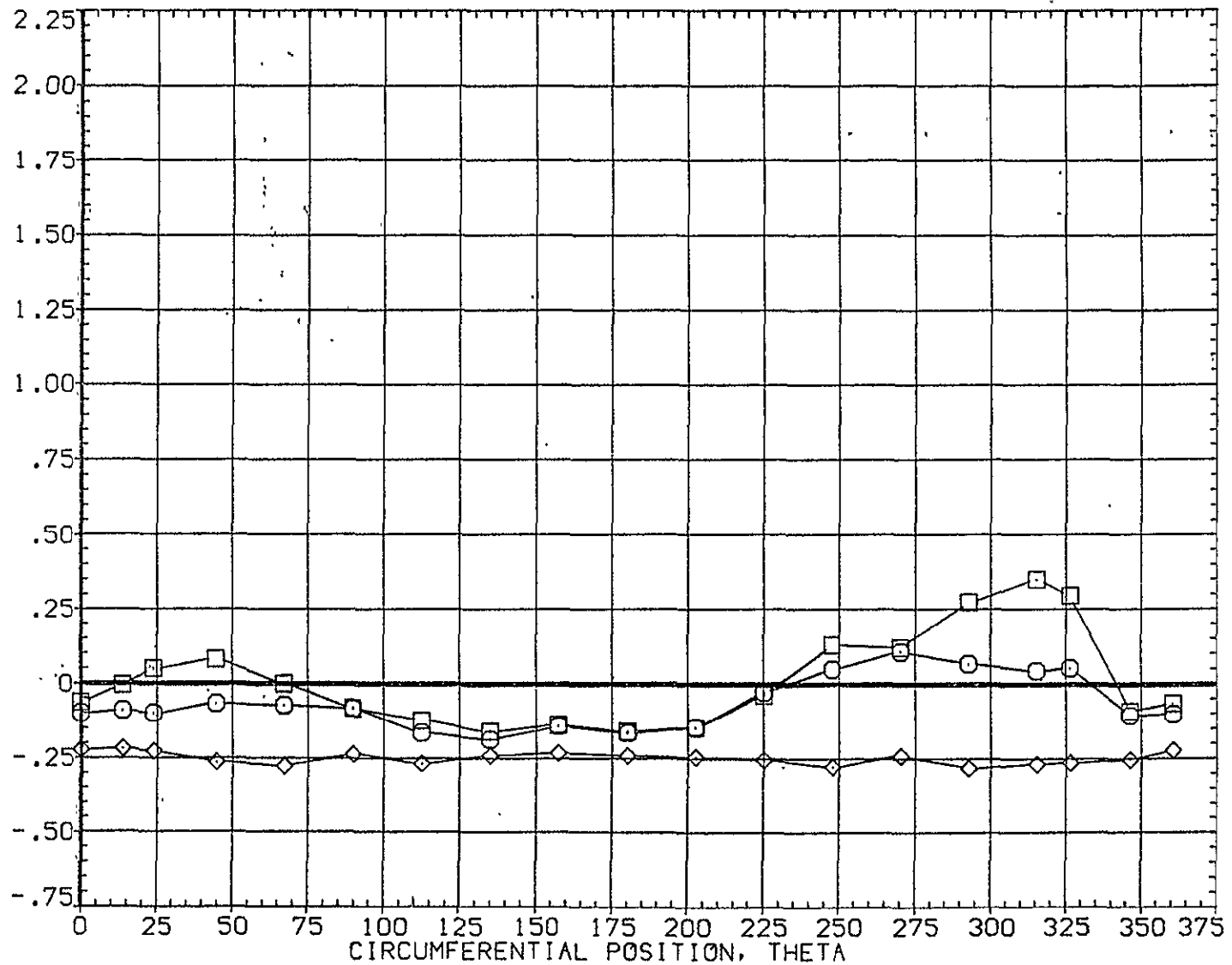


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	20.740	1.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	90.000

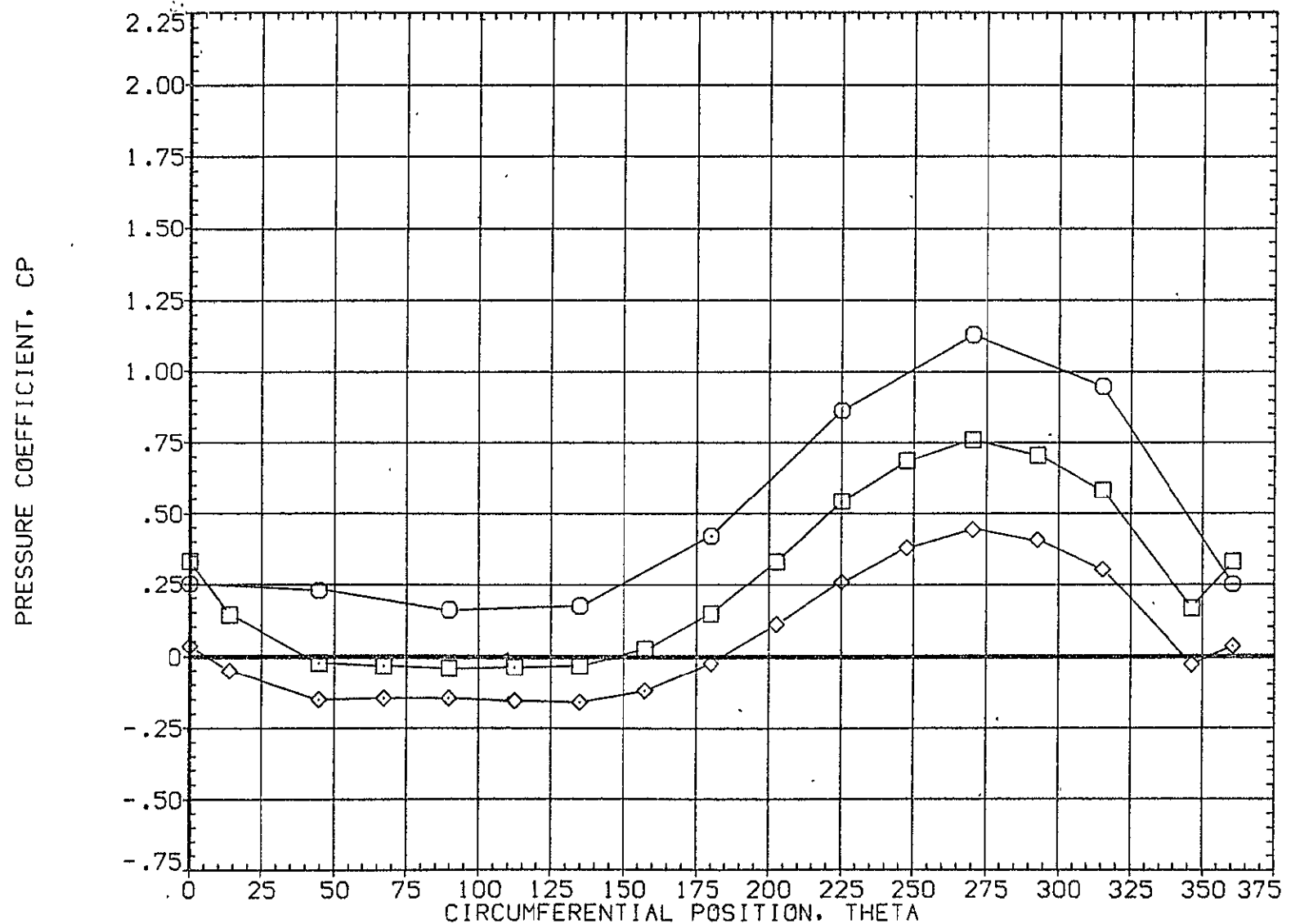


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.216	20.740	1.960	MOUNT	.000	20.000	
□	.322				1.000	PHI	90.000
◇	.518						

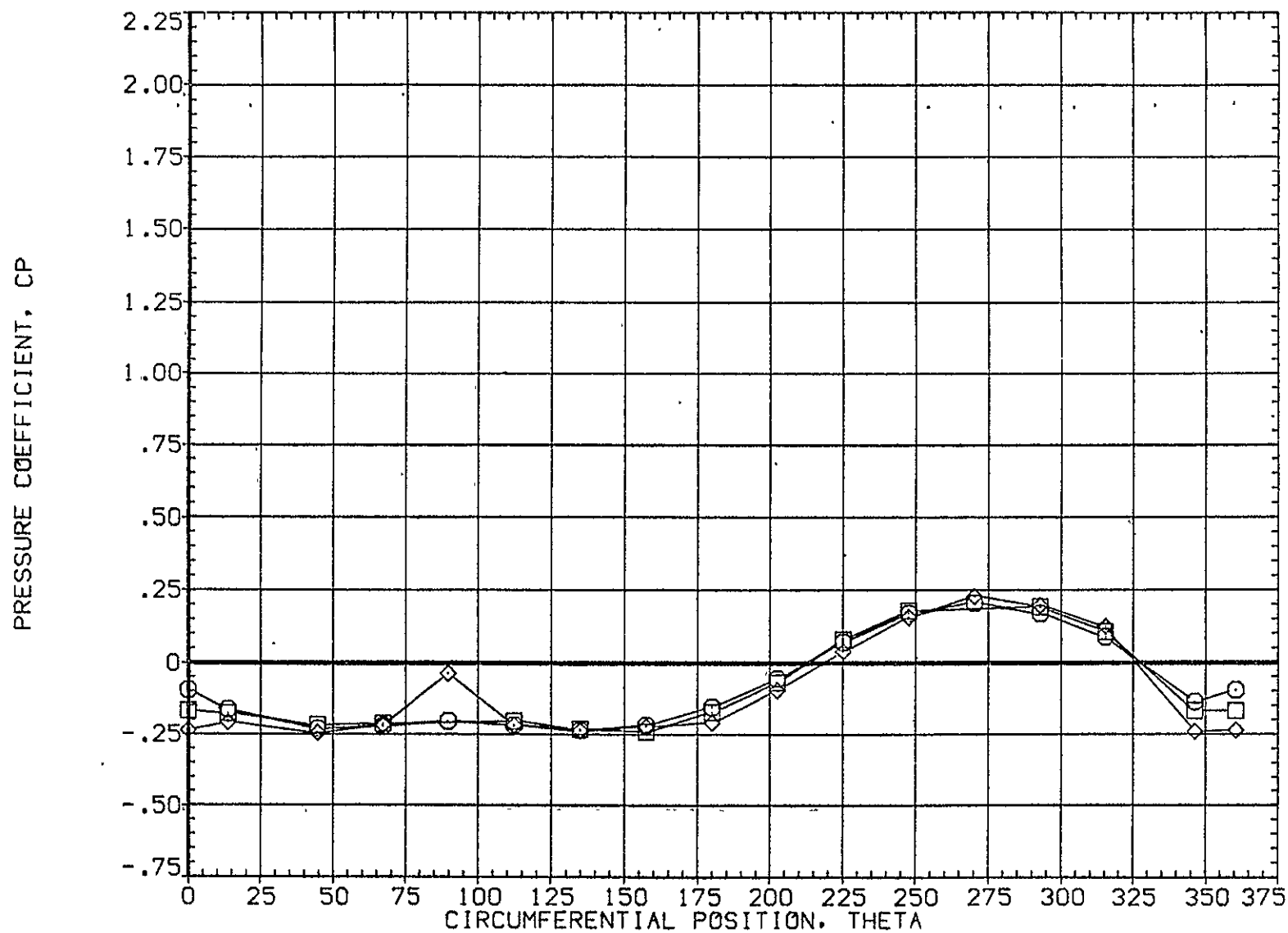


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK.

(P1A018)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	20.740	1.960	MOUNT	.000	PHI	90.000
□	.735				1.000		
◇	.860						

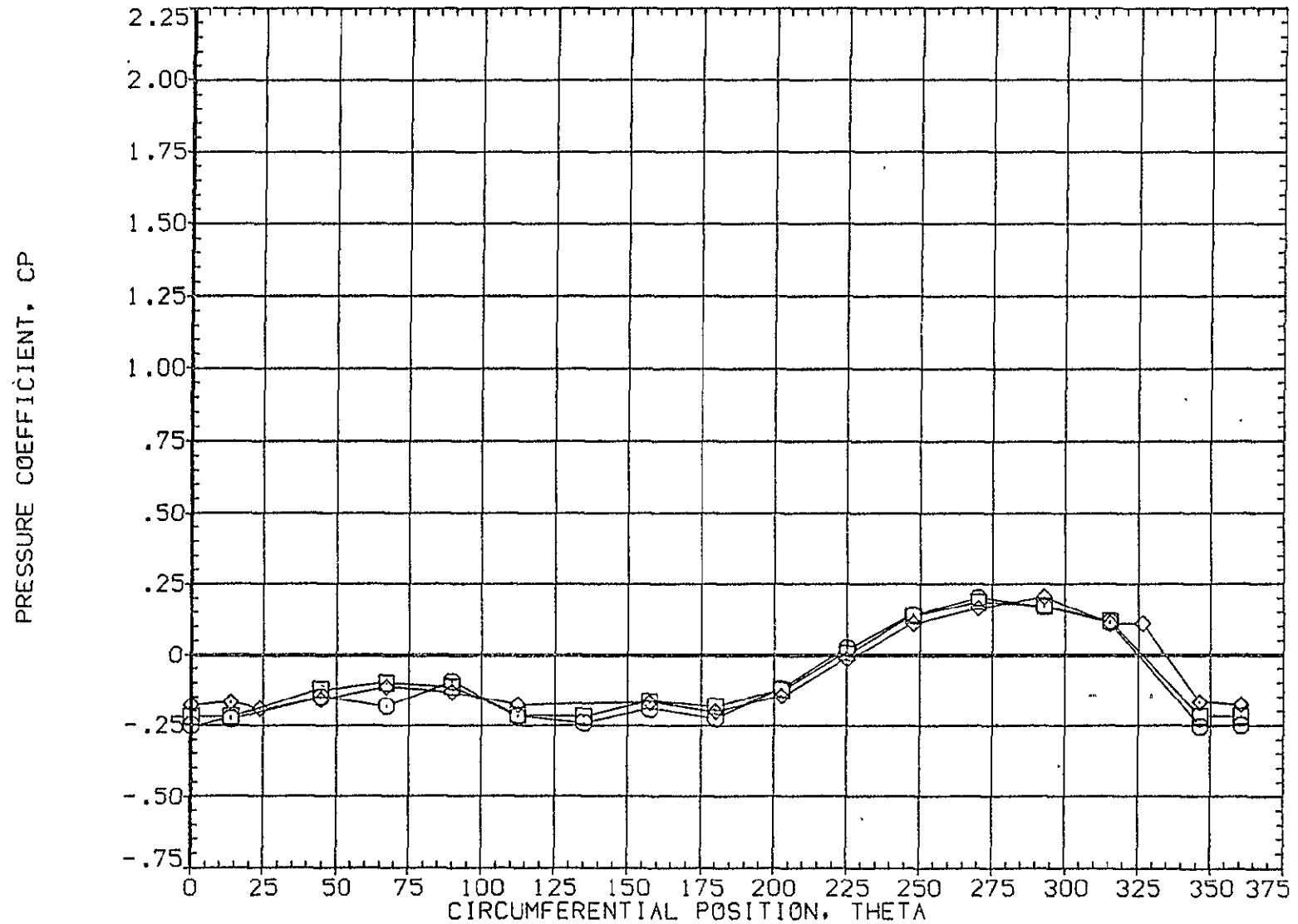


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	20.740	1.960	.000	20.000		
□	.923			1.000	90.000		
◇	.954						

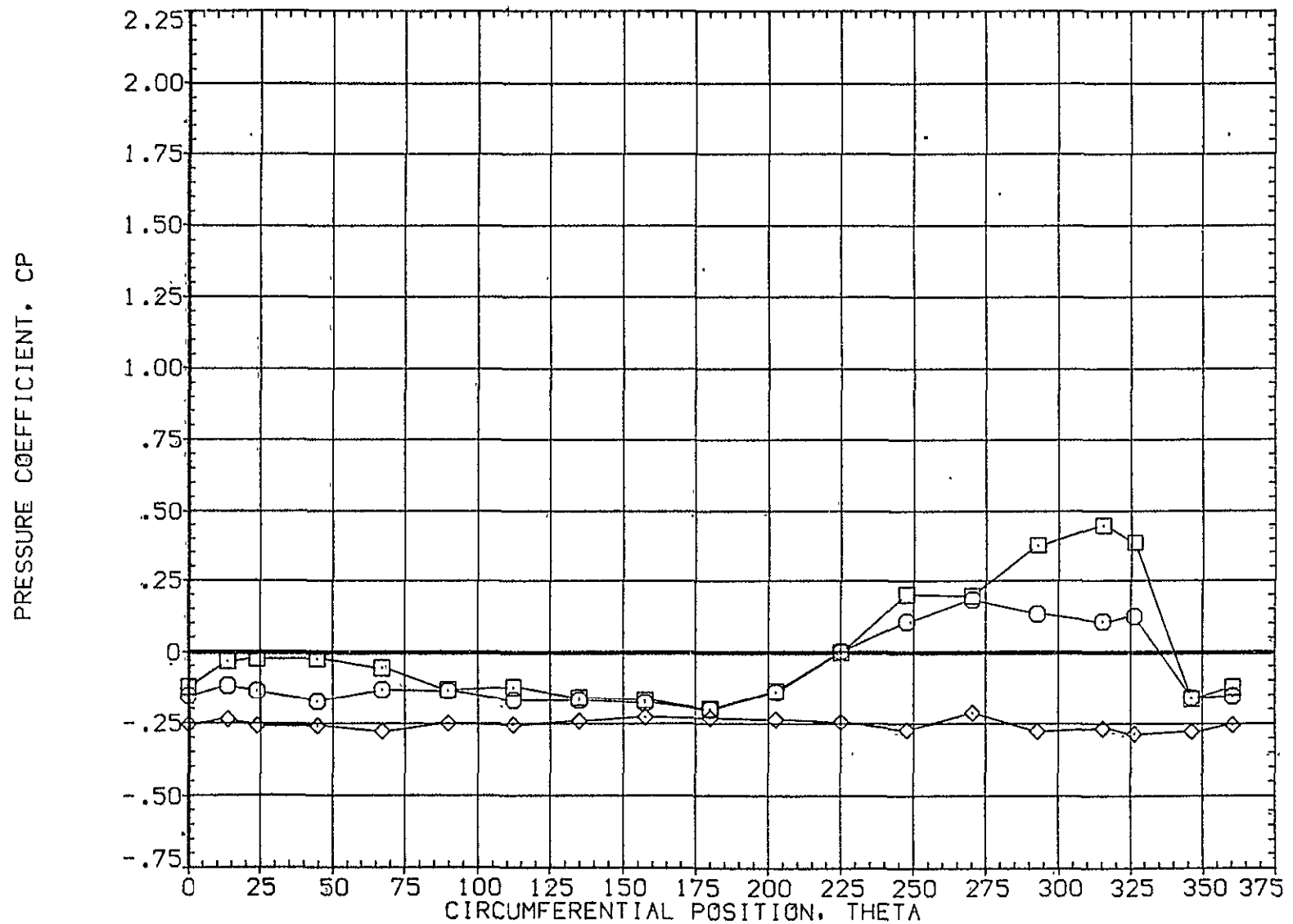


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK. T1

(P1A019)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	24.850	1.960	MOUNT	.000	PHI	90.000
□	.108				1.000		
◇	.152						

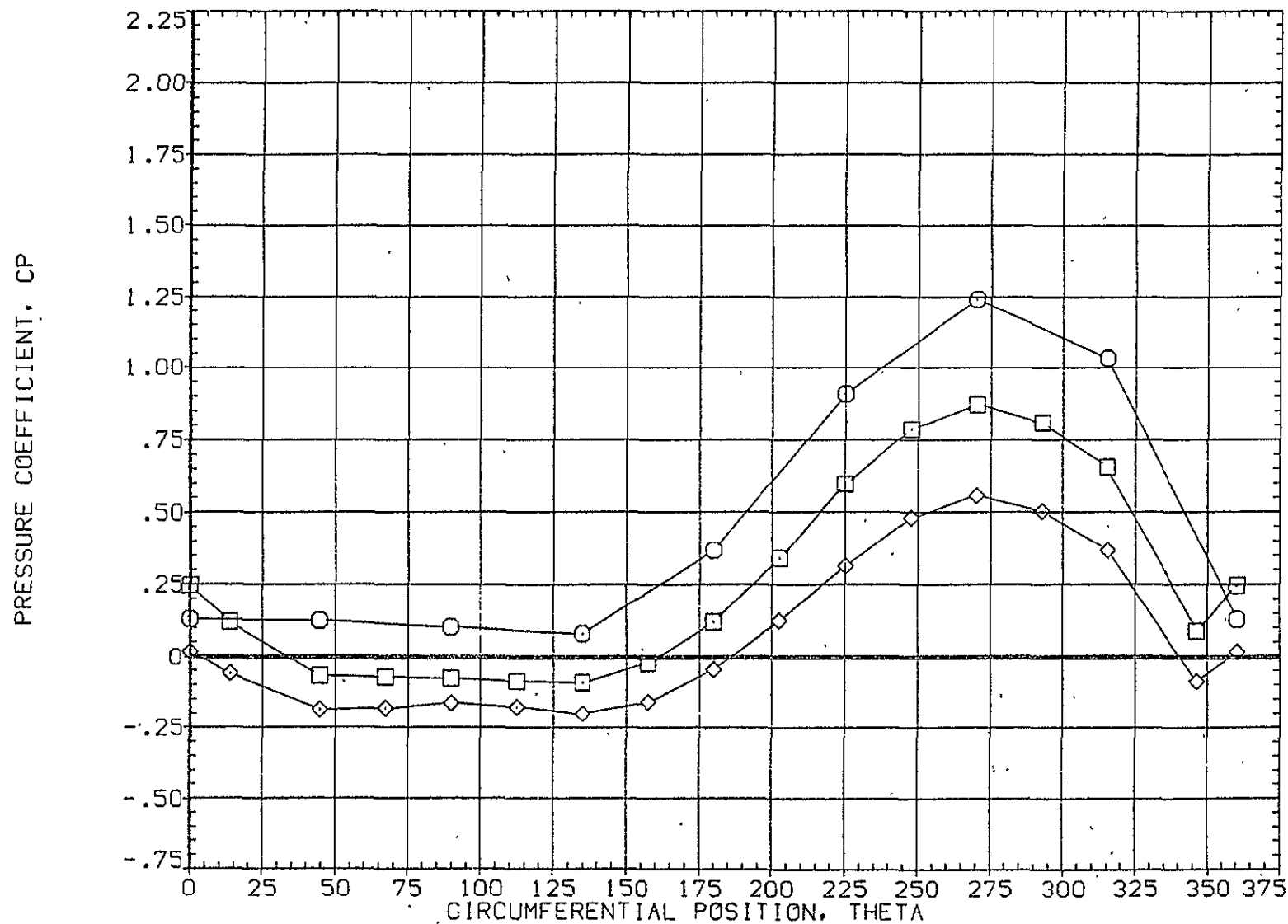


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

BETA

PARAMETRIC VALUES

OFFSET

20.000

MOUNT

1.000

PHI

90.000

PRESSURE COEFFICIENT, CP

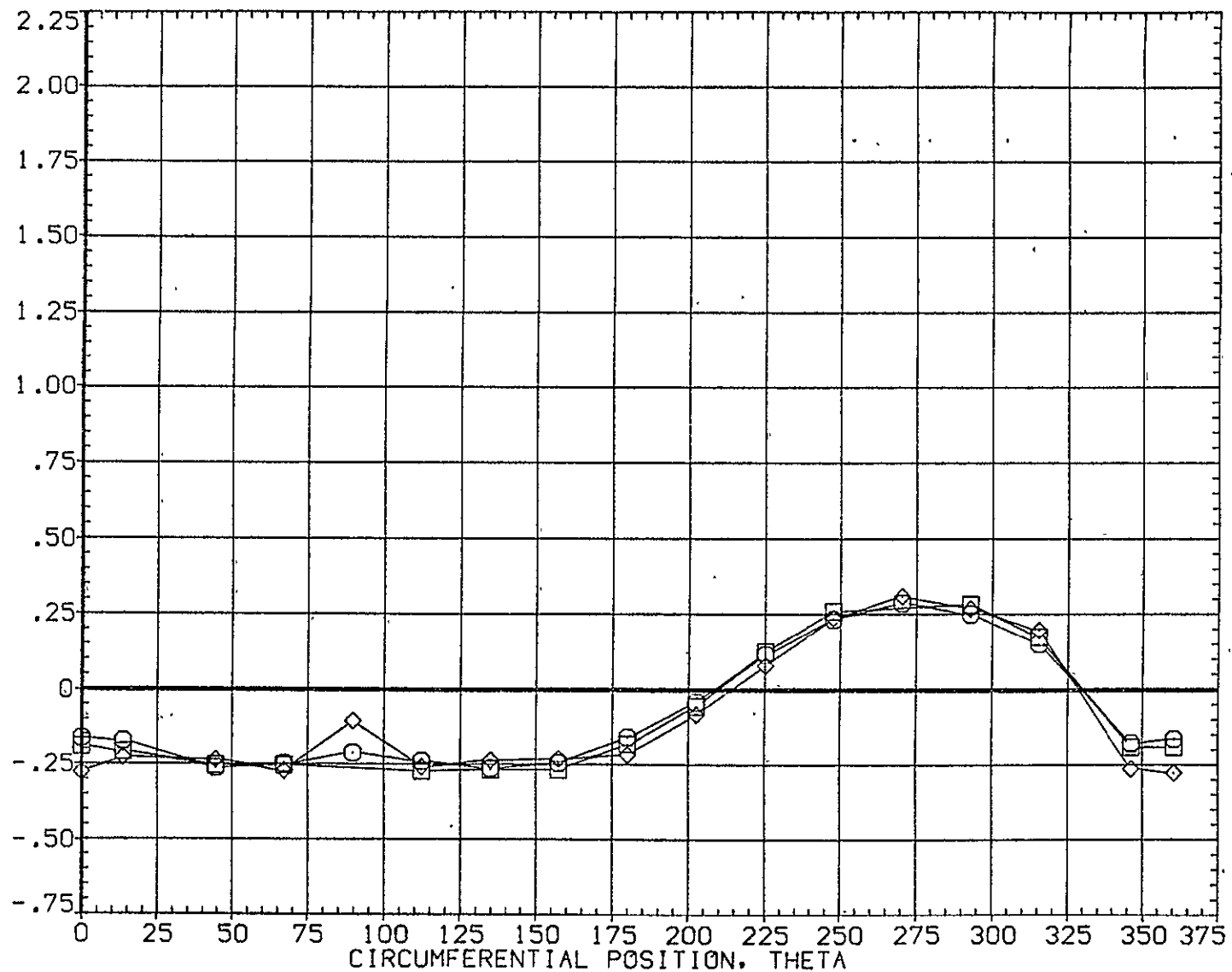


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A019)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	24.850	1.960	.000	OFFSET 20.000
□	.735			1.000	PHI 90.000
◇	.860				

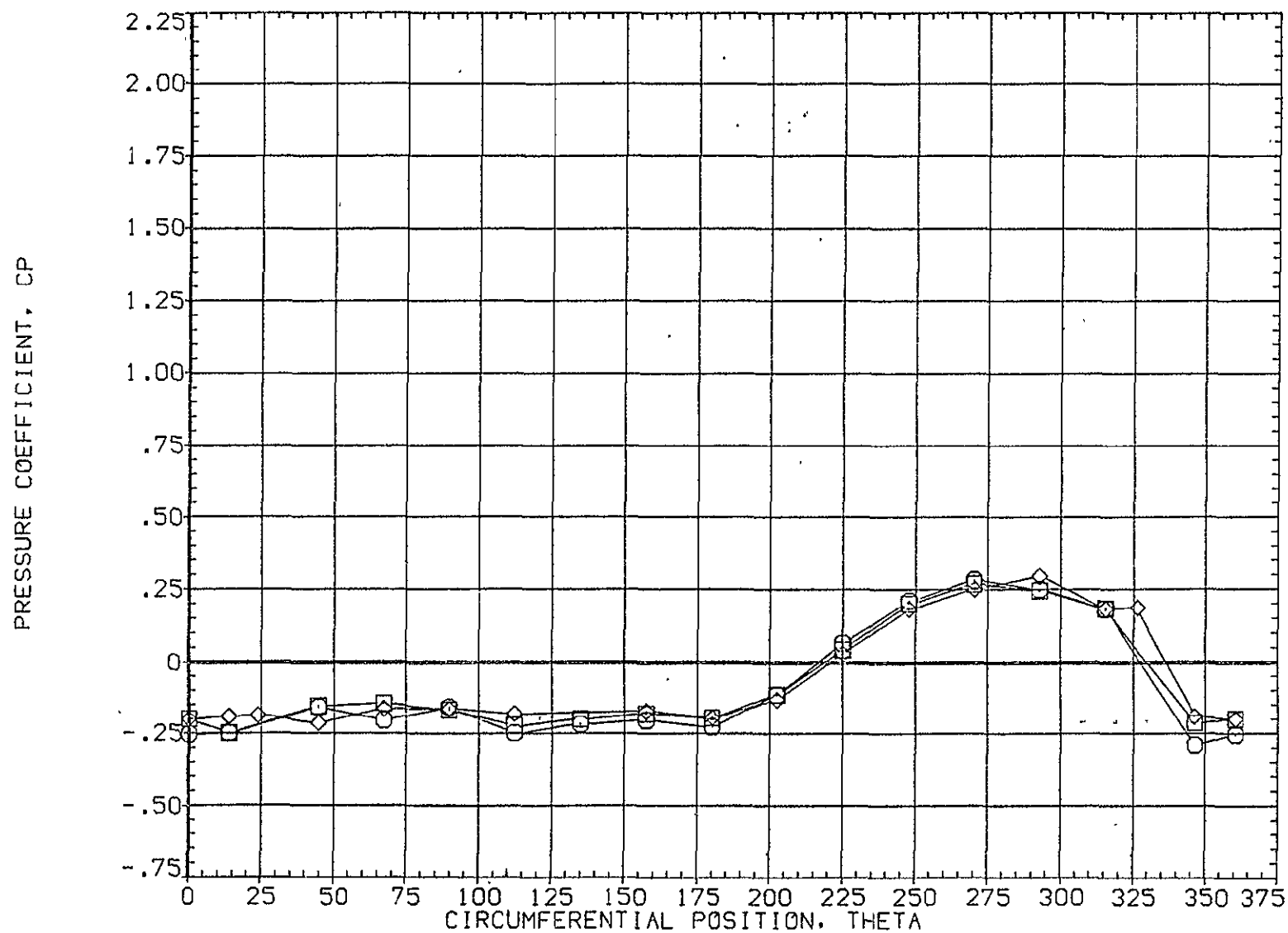


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.892	24.850	1.960	MOUNT	.000	PHI	90,000
□	.923				1.000		
◇	.954						

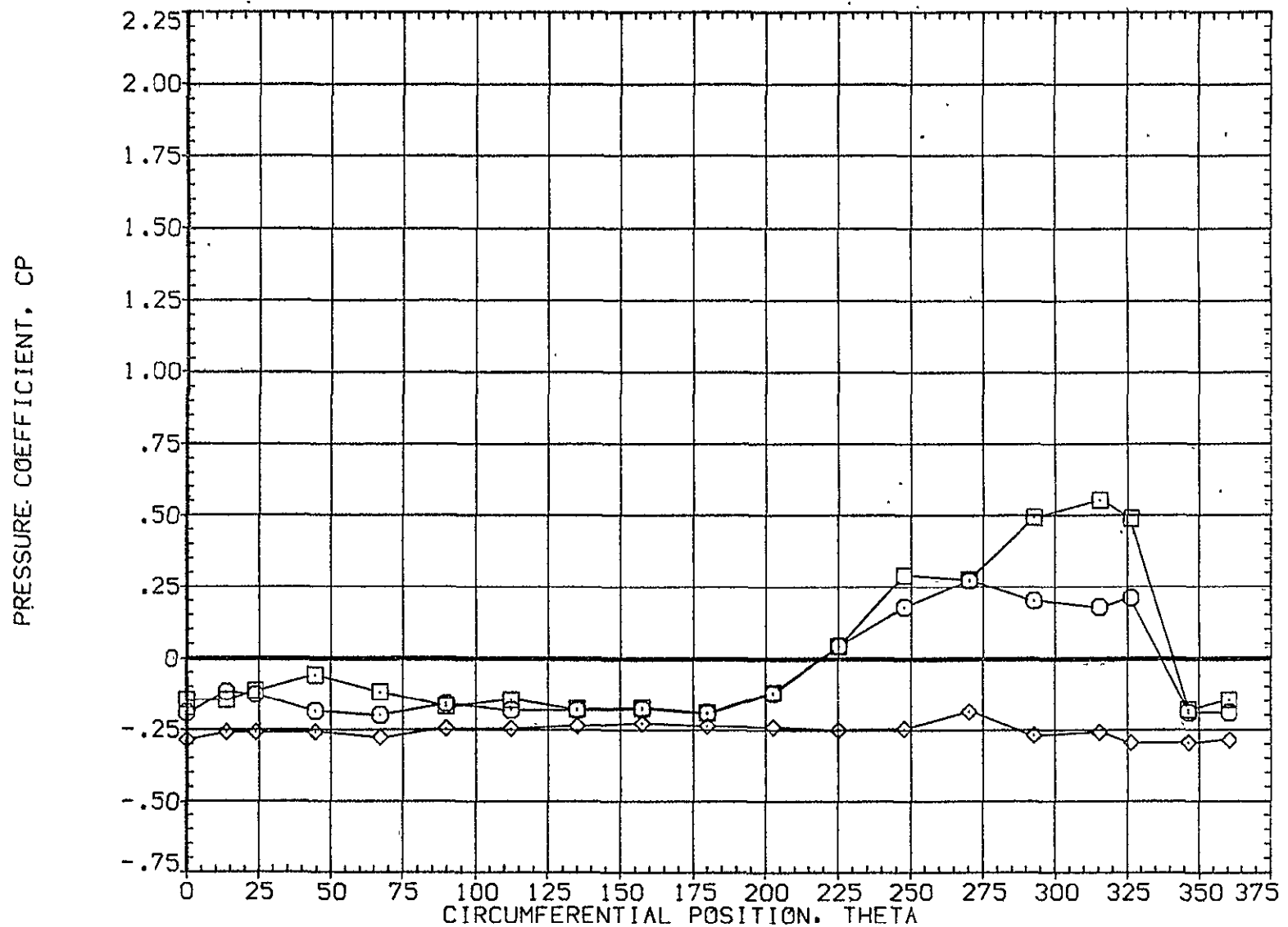


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A020)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	28.930	1.960				20.000
□	.108						90.000
◇	.162						

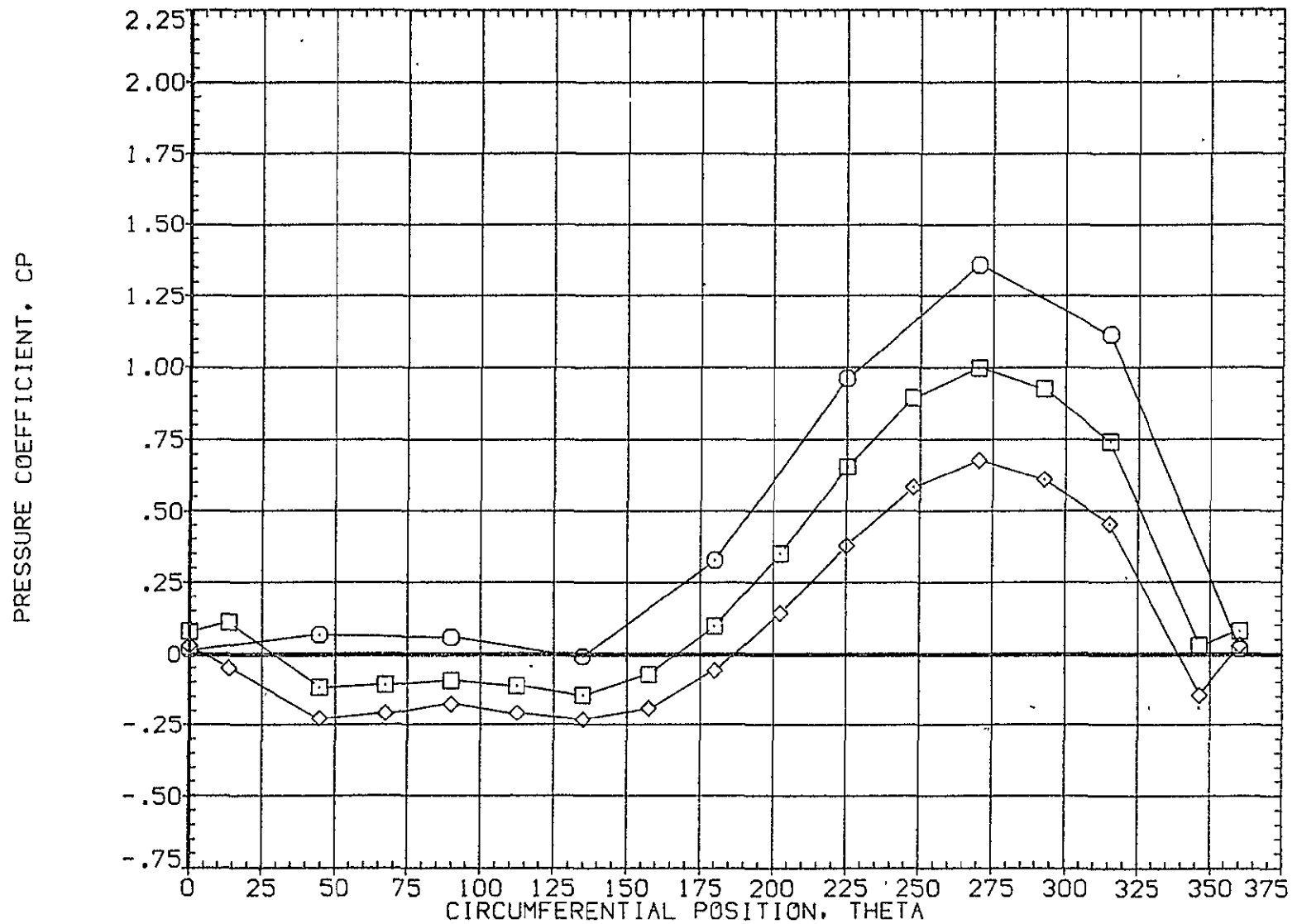


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	28.930	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	90.000

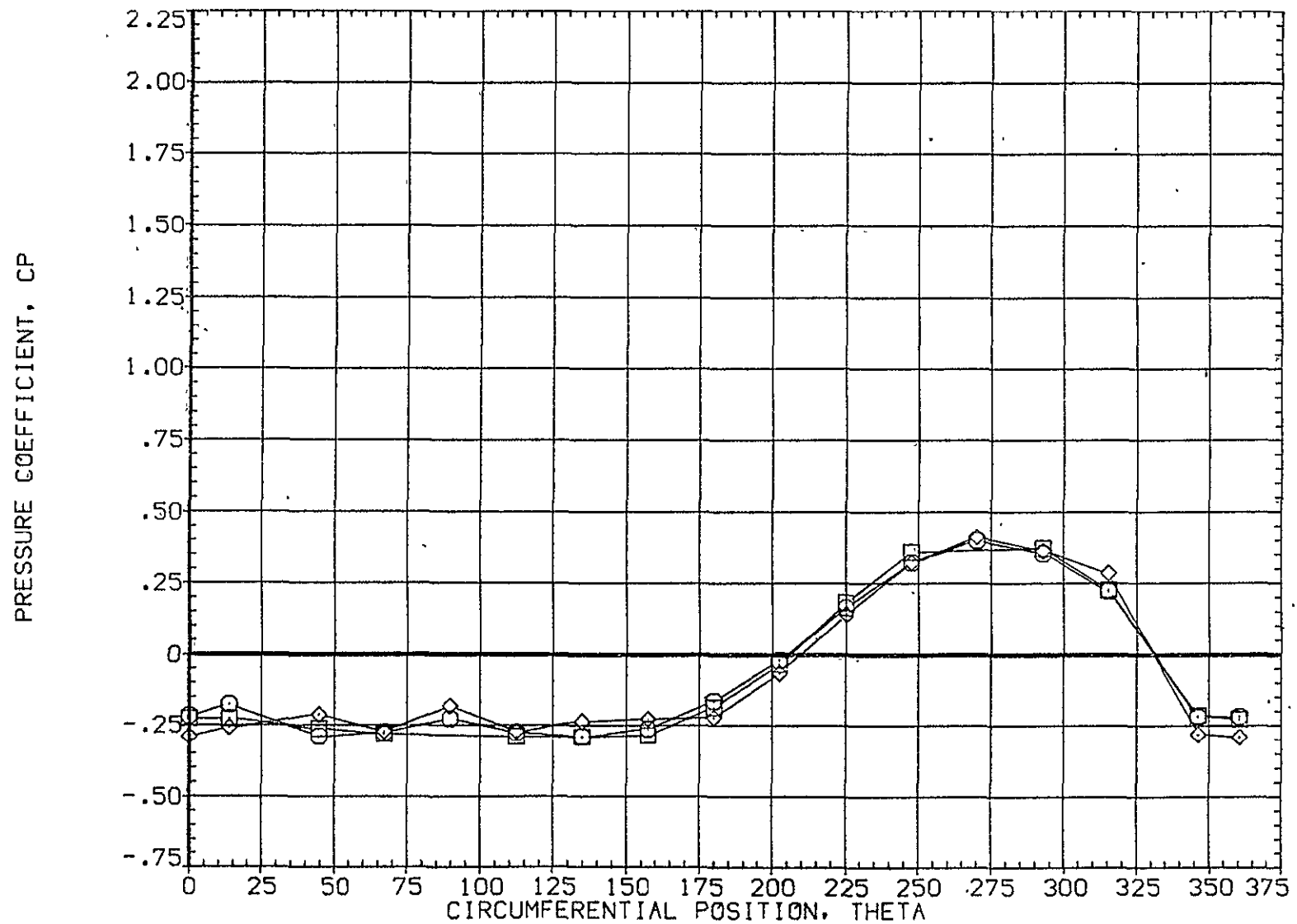


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A020)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	28.930	1.960	MOUNT	.000	PHI	20.000
□	.735				1.000		90.000
◇	.860						

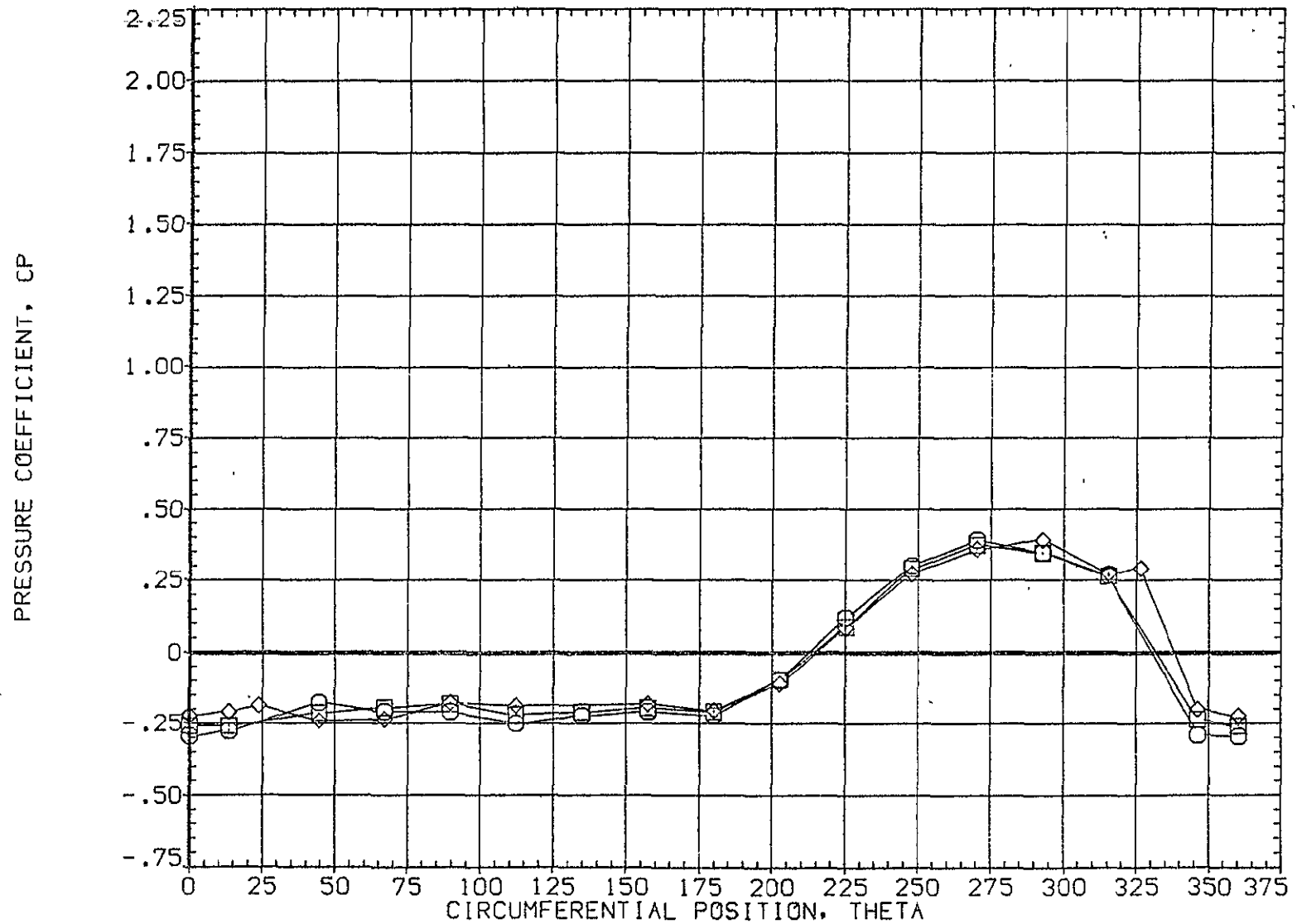


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	.000 1.000 PHI	20.000 90.000
○	.892	28.930	1.960			
□	.923					
◇	.954					

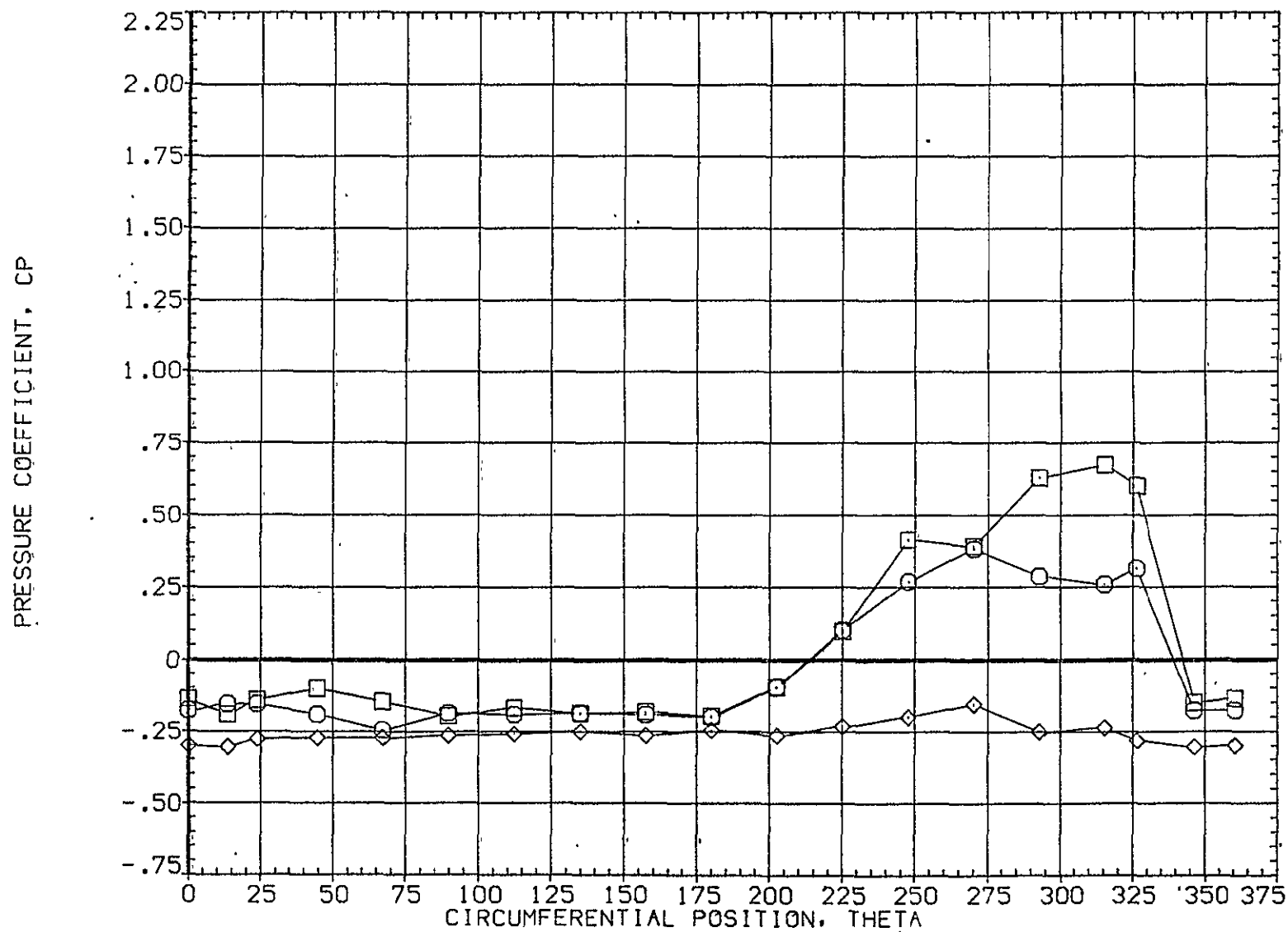


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A031)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-8.380	1.960	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	180.000
◇	.162						

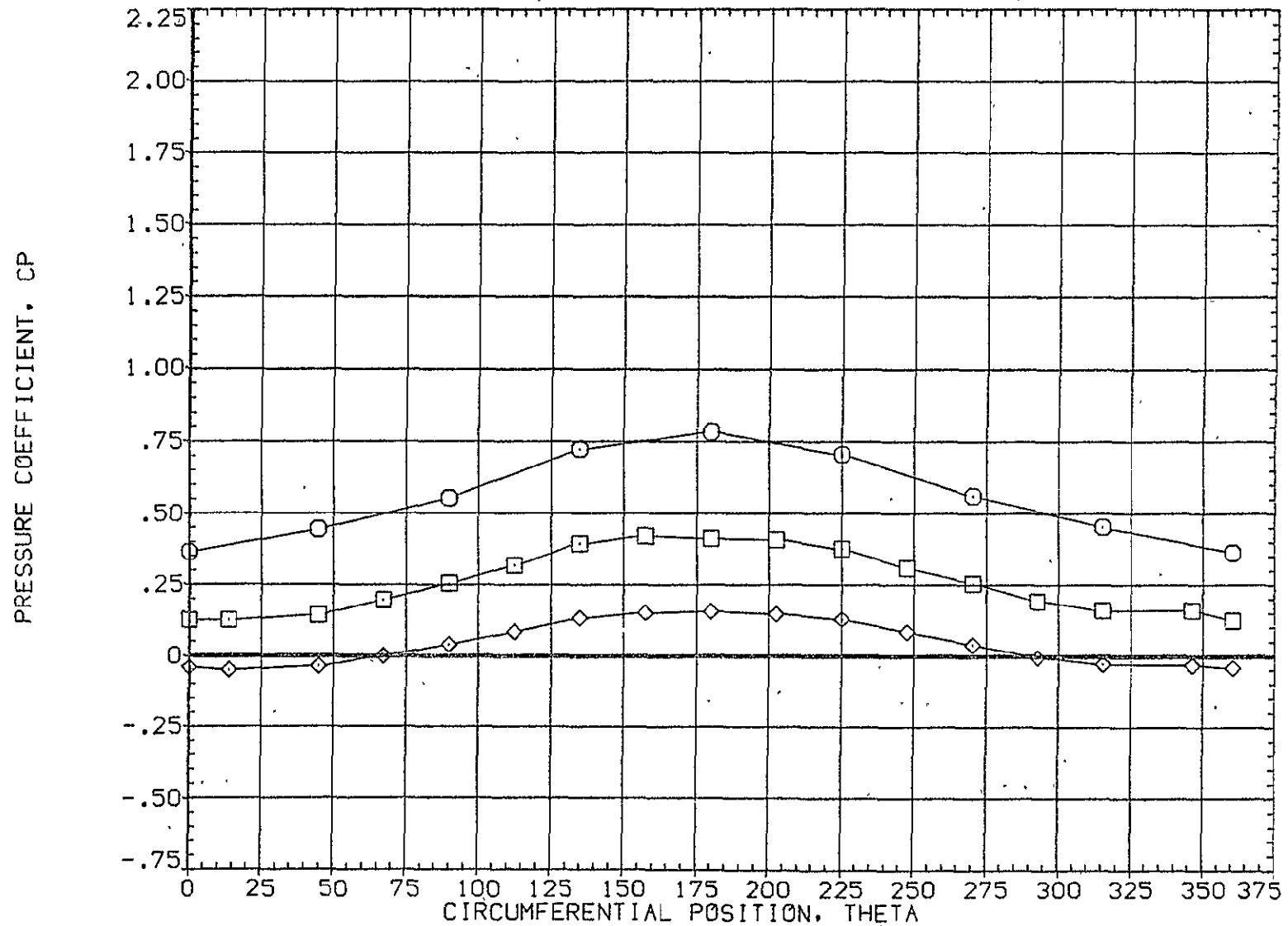


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.216	-8.380	1.960	.000	OFFSET .000
□	.322			1.000	PHI 180.000
◇	.518				

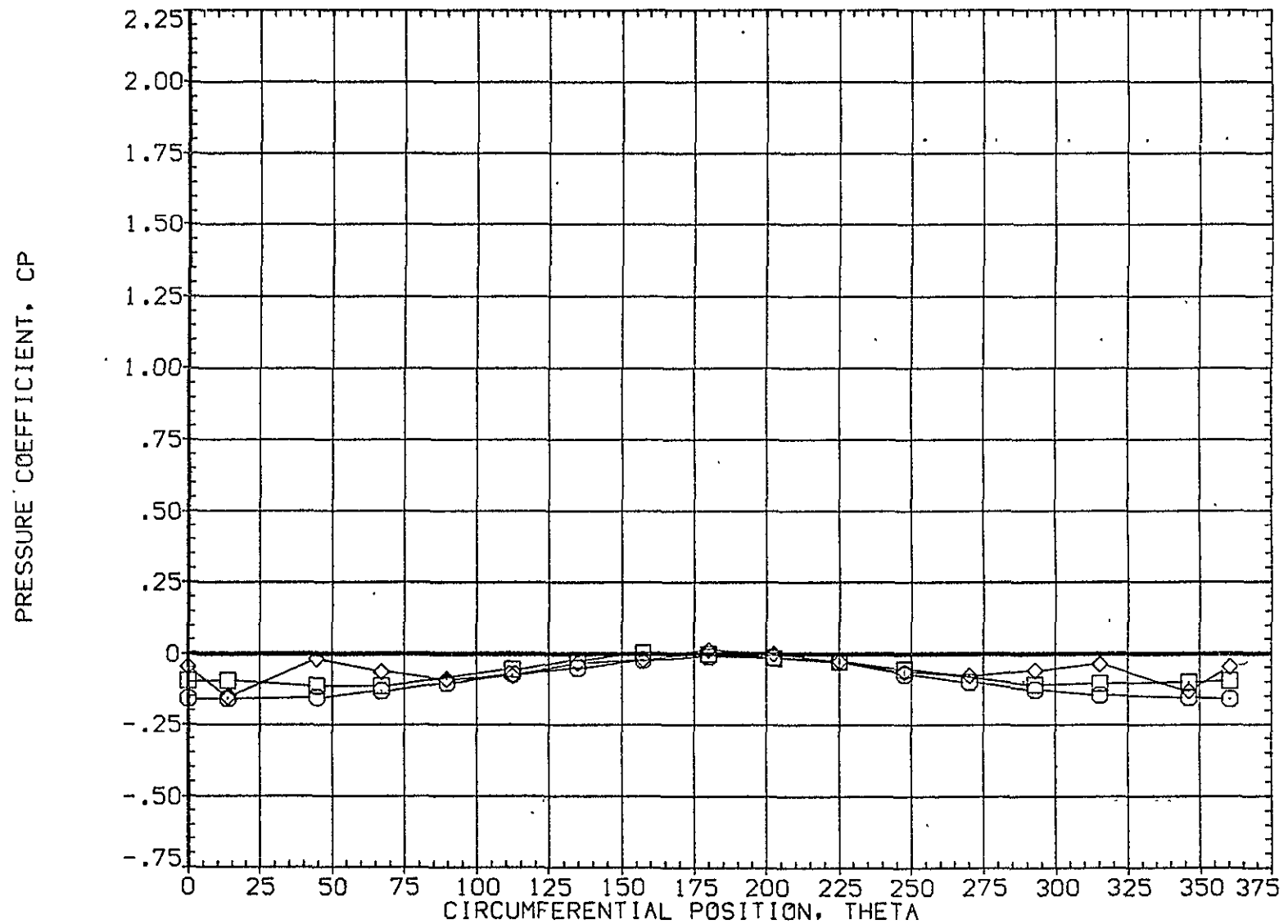


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A031)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.610	-8.380	1.960	MOUNT	1.000	PHI	180.000
□	.735						
◇	.860						

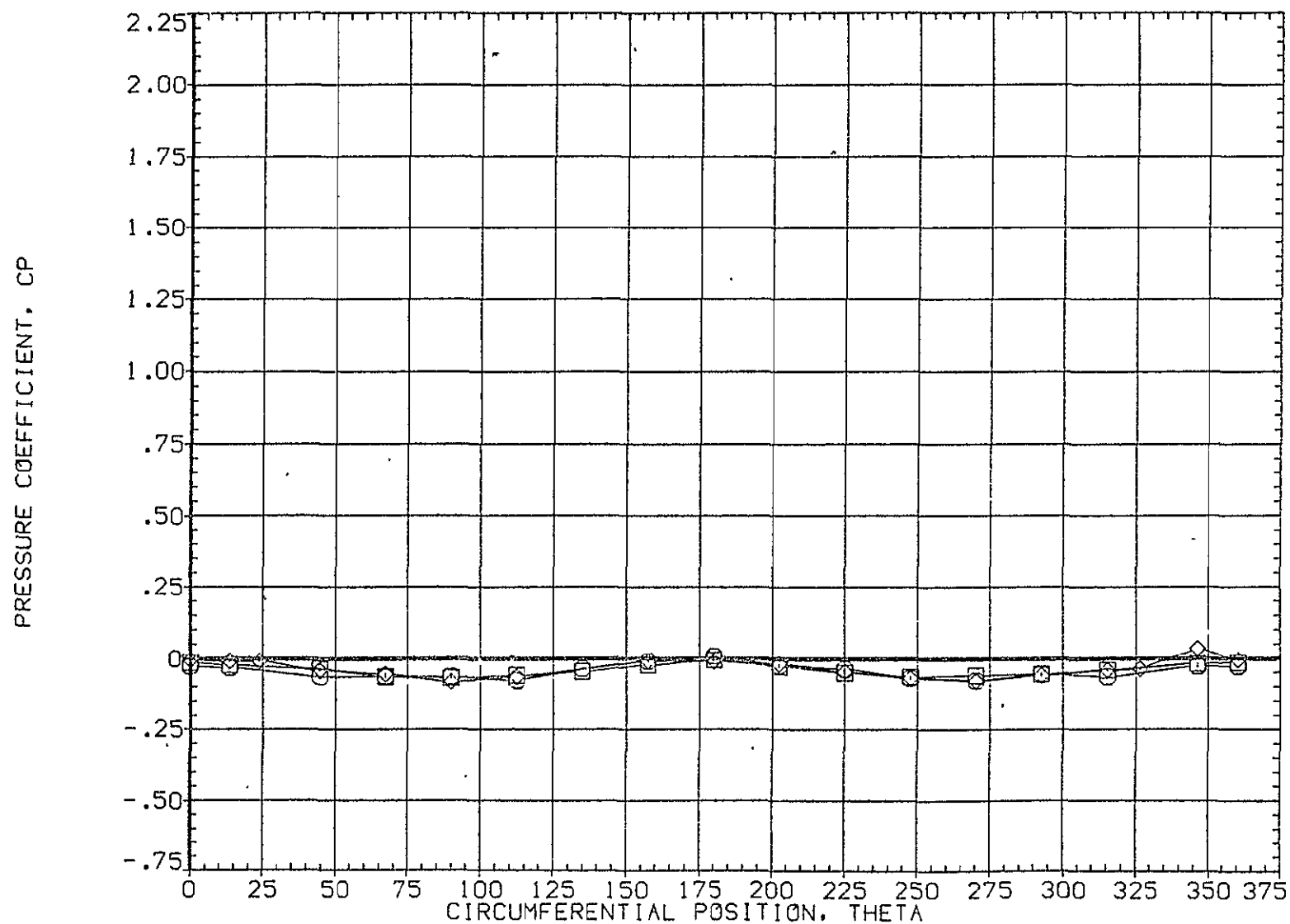


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	-8.380	1.960	MOUNT	.000	.000	
□	.923				1.000	PHI	180.000
◇	.954						

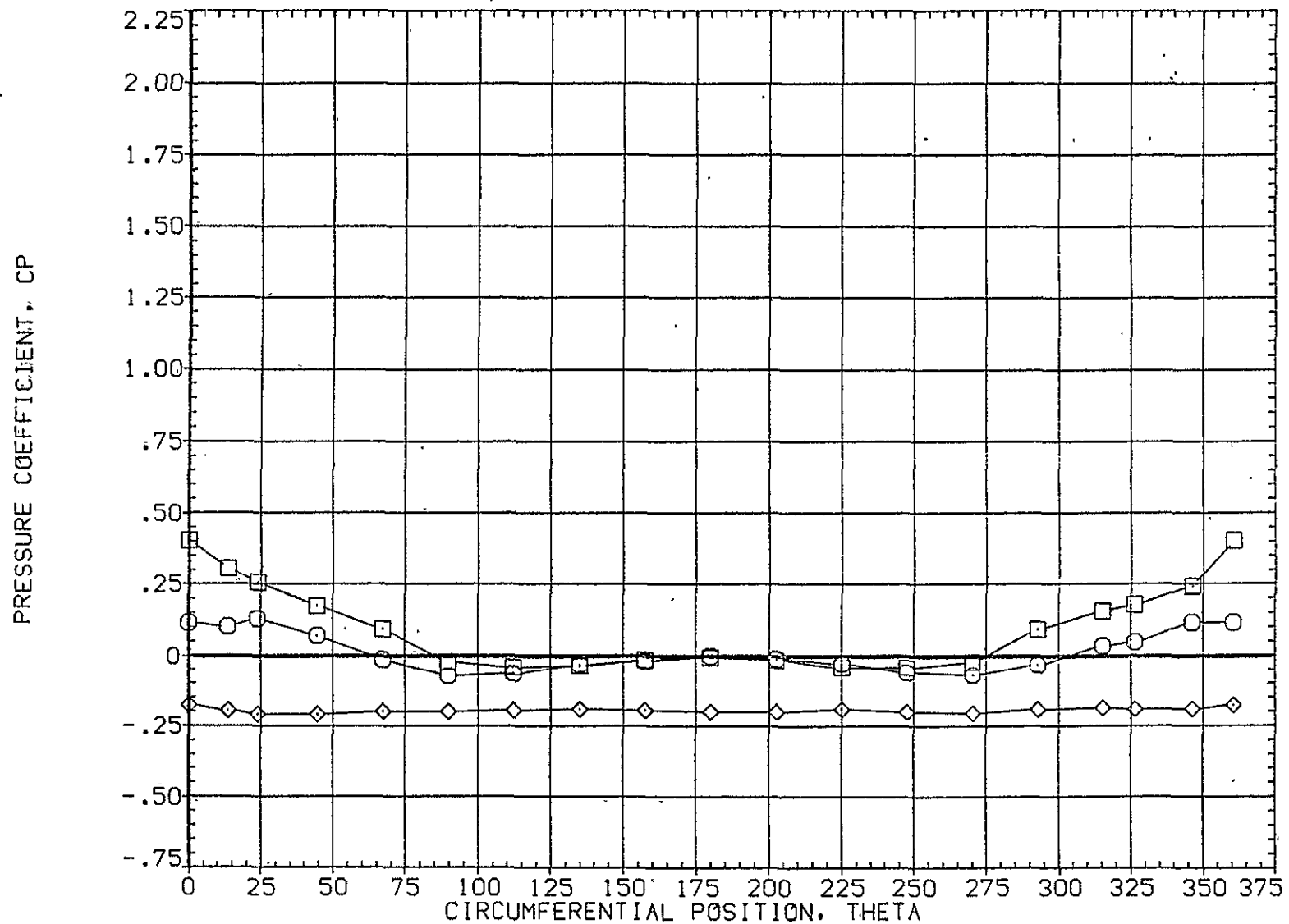


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A032)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-4.330	1.960	MOUNT	.000	PHI	.000
□	.108				1.000		180.000
◇	.162						

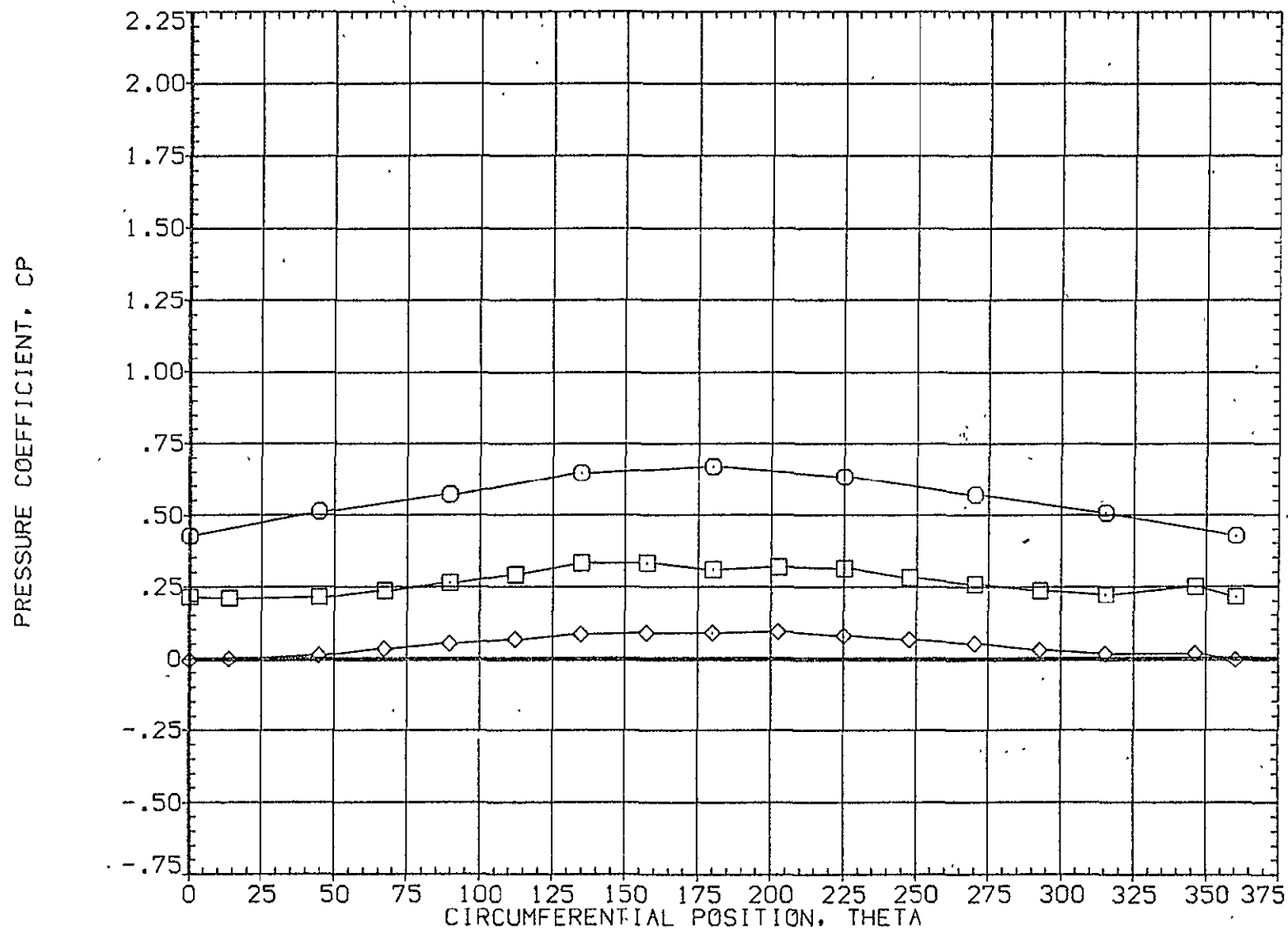


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-4.330	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	.000
MOUNT	PHI	180.000

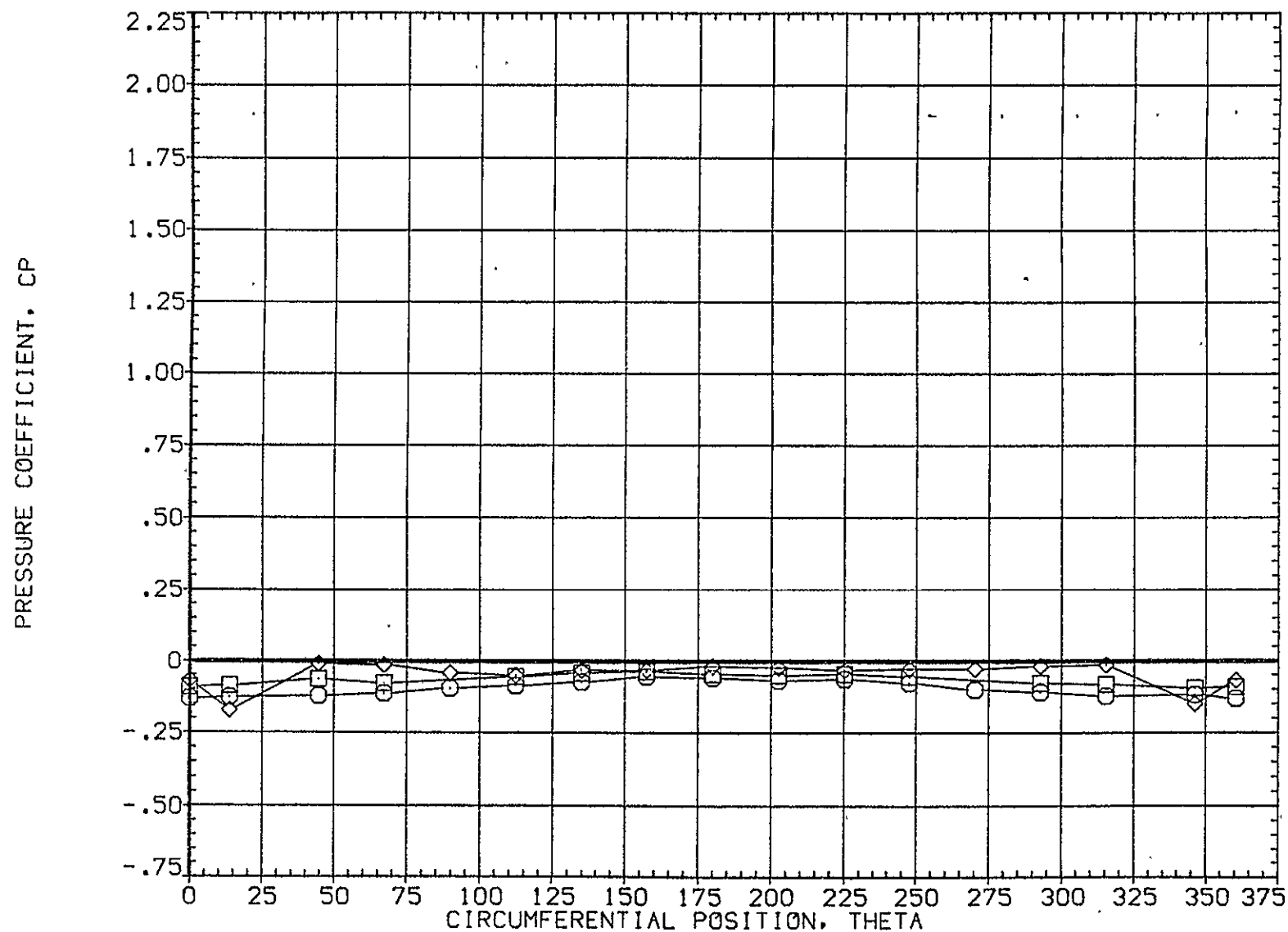


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A032)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-4.330	1.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	190.000
◇	.860						

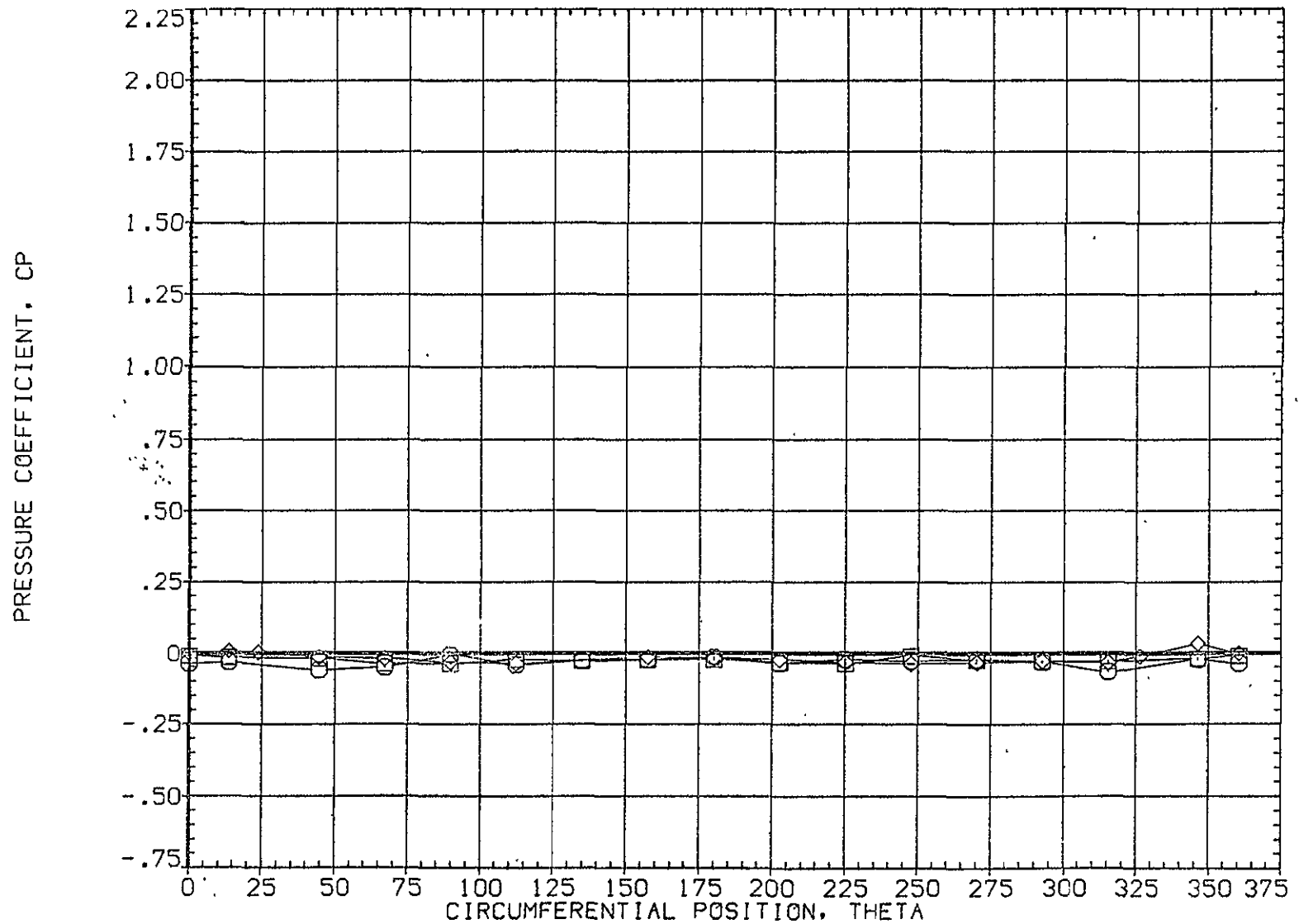


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-4.330	1.960	.000	.000	
□	.923			1.000	PHI	180.000
◇	.954					

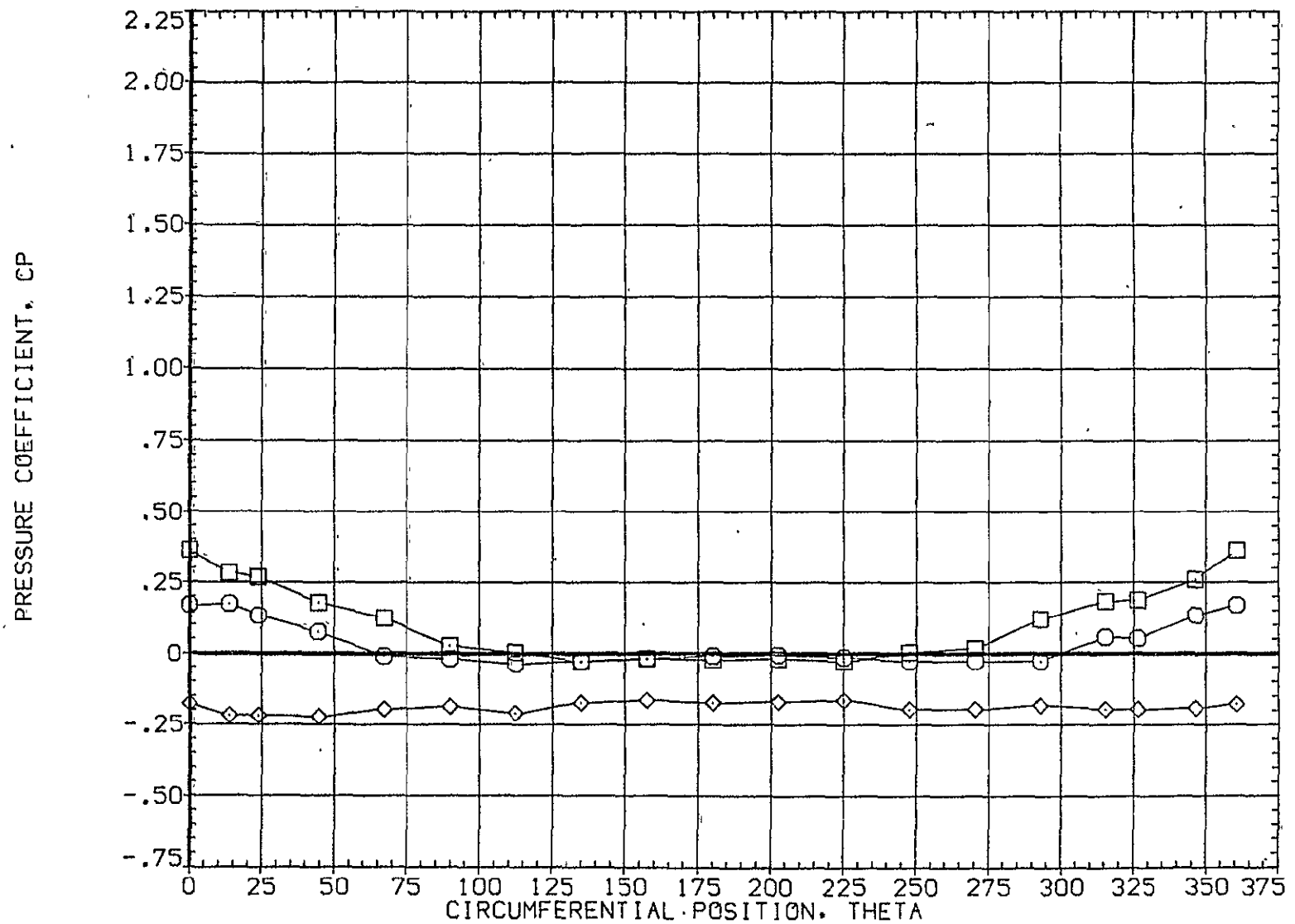


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A033)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	.000
○	.055	-.280	1.960	MOUNT	1.000	PHI 180.000
□	.108					
◇	.162					

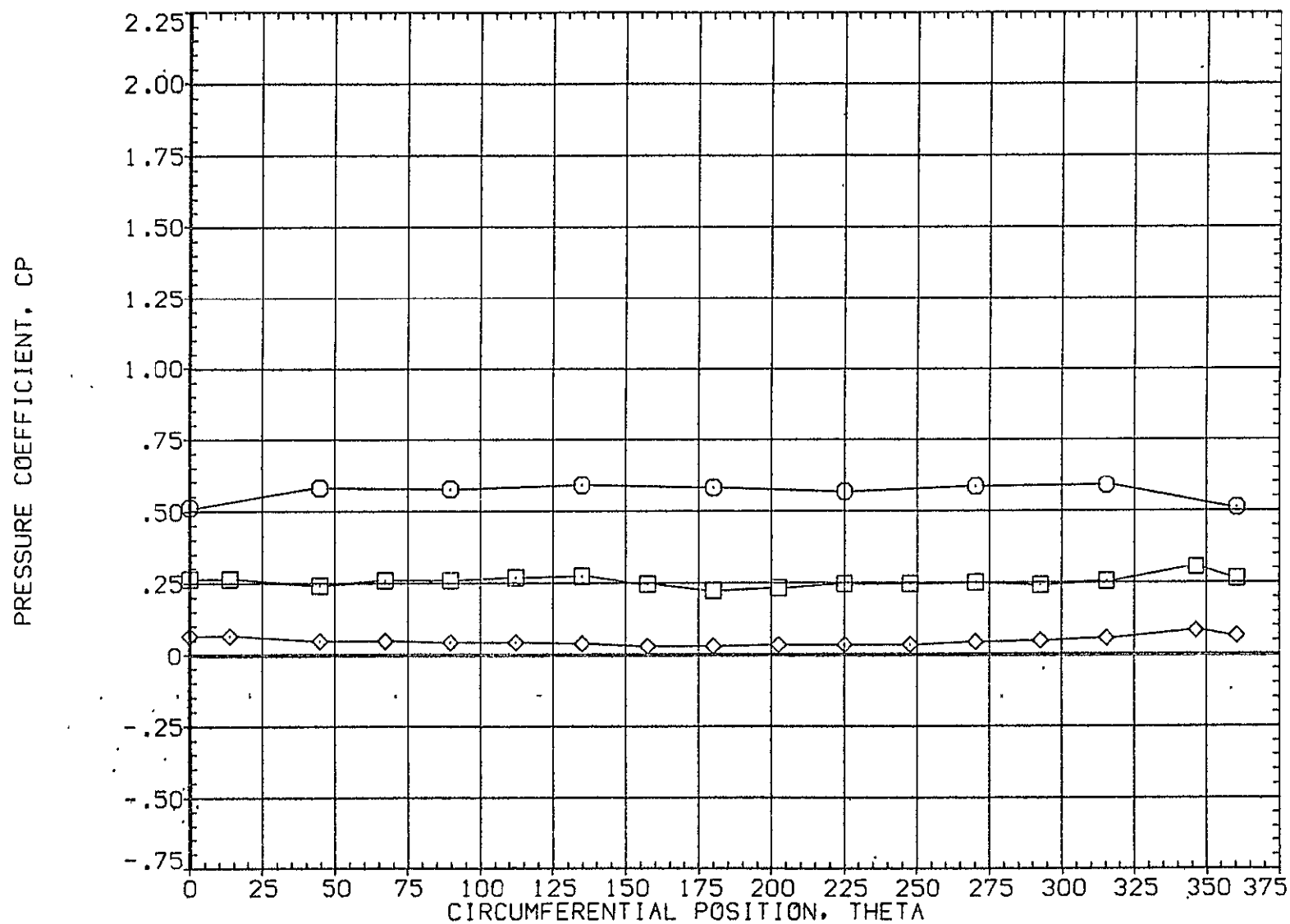


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-.280	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	
1.000	180.000	

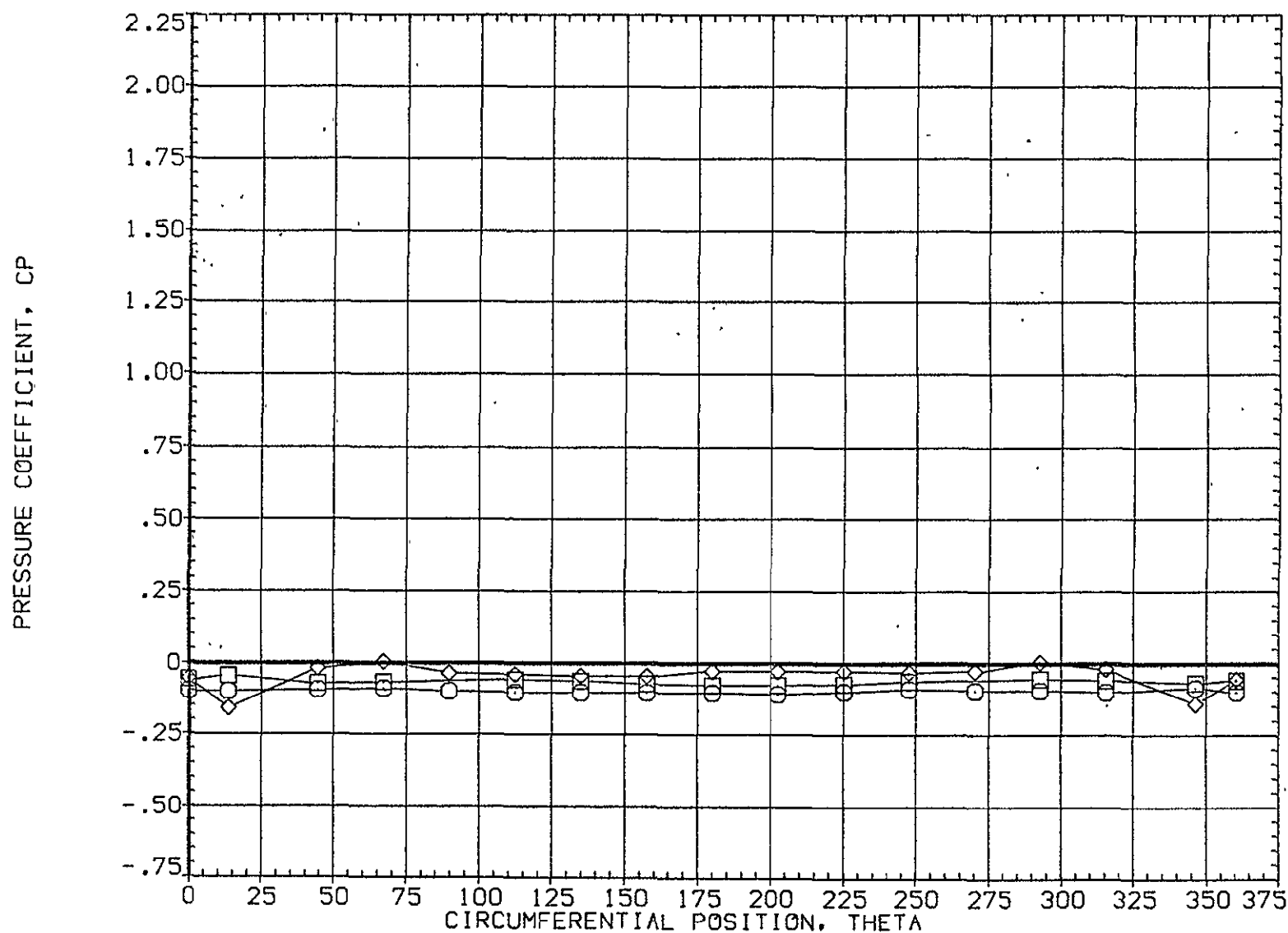


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1 (P1A033)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-.280	1.960	MOUNT	.000	PHI	.000
□	.735				1.000		180.000
◇	.860						

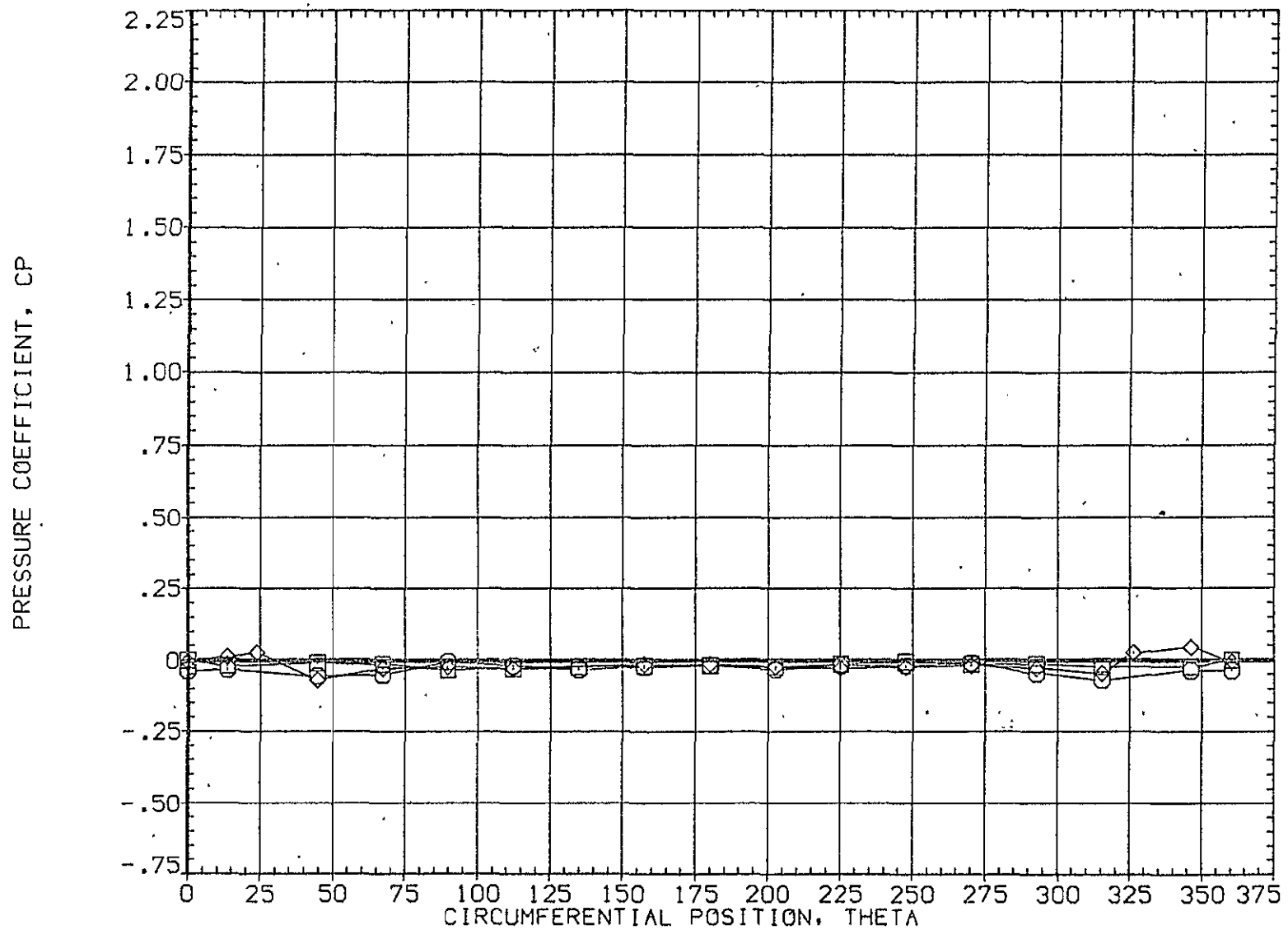


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-.280	1.960	MOUNT	.000	.000
□	.923				1.000	PHI 180.000
◇	.954					

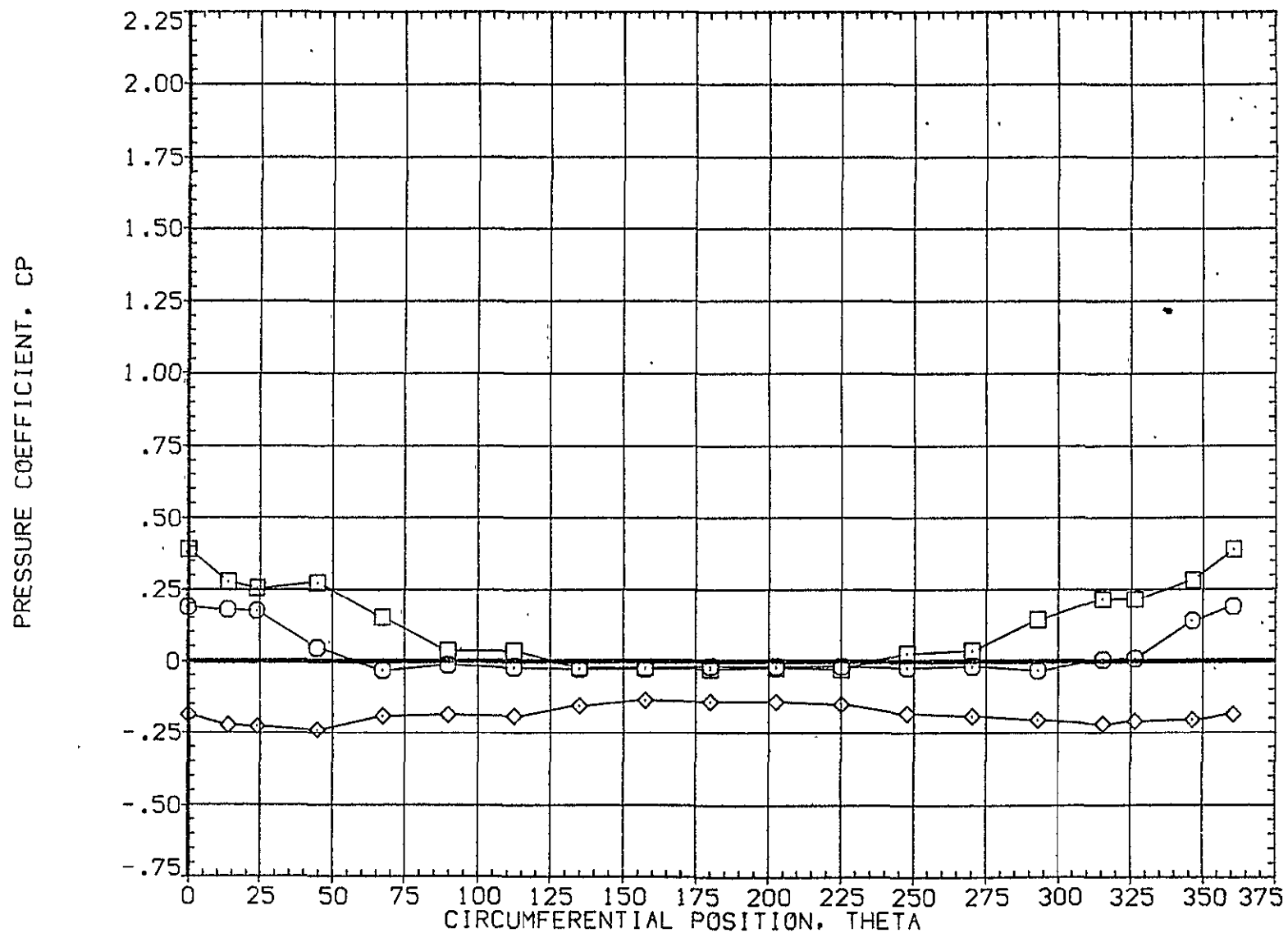


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A034)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	3.770	1.960	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	180.000
◇	.162						

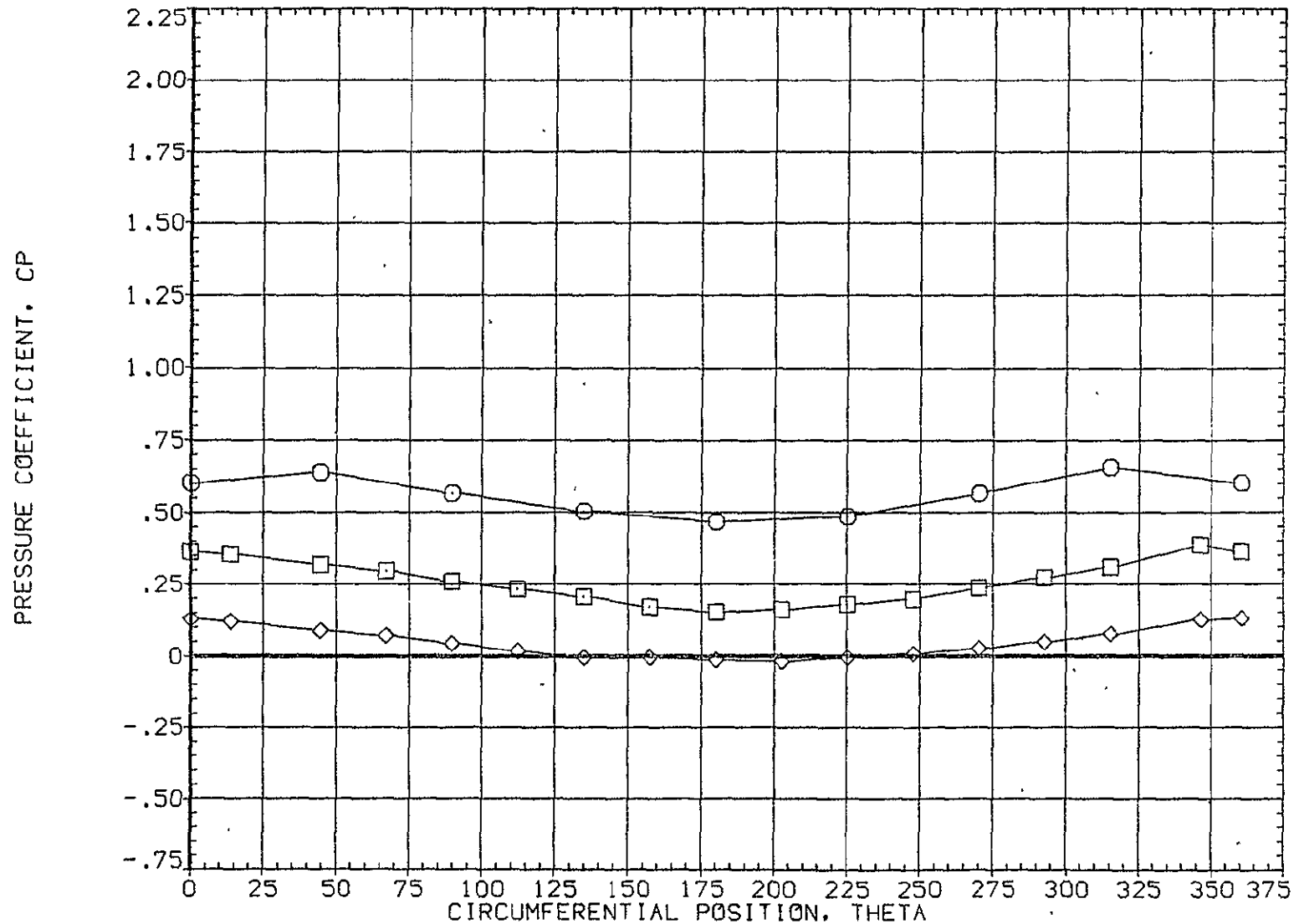


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

BETA

PARAMETRIC VALUES

.000 OFFSET

.000

MOUNT

1.000

PHI

180.000

PRESSURE COEFFICIENT, CP

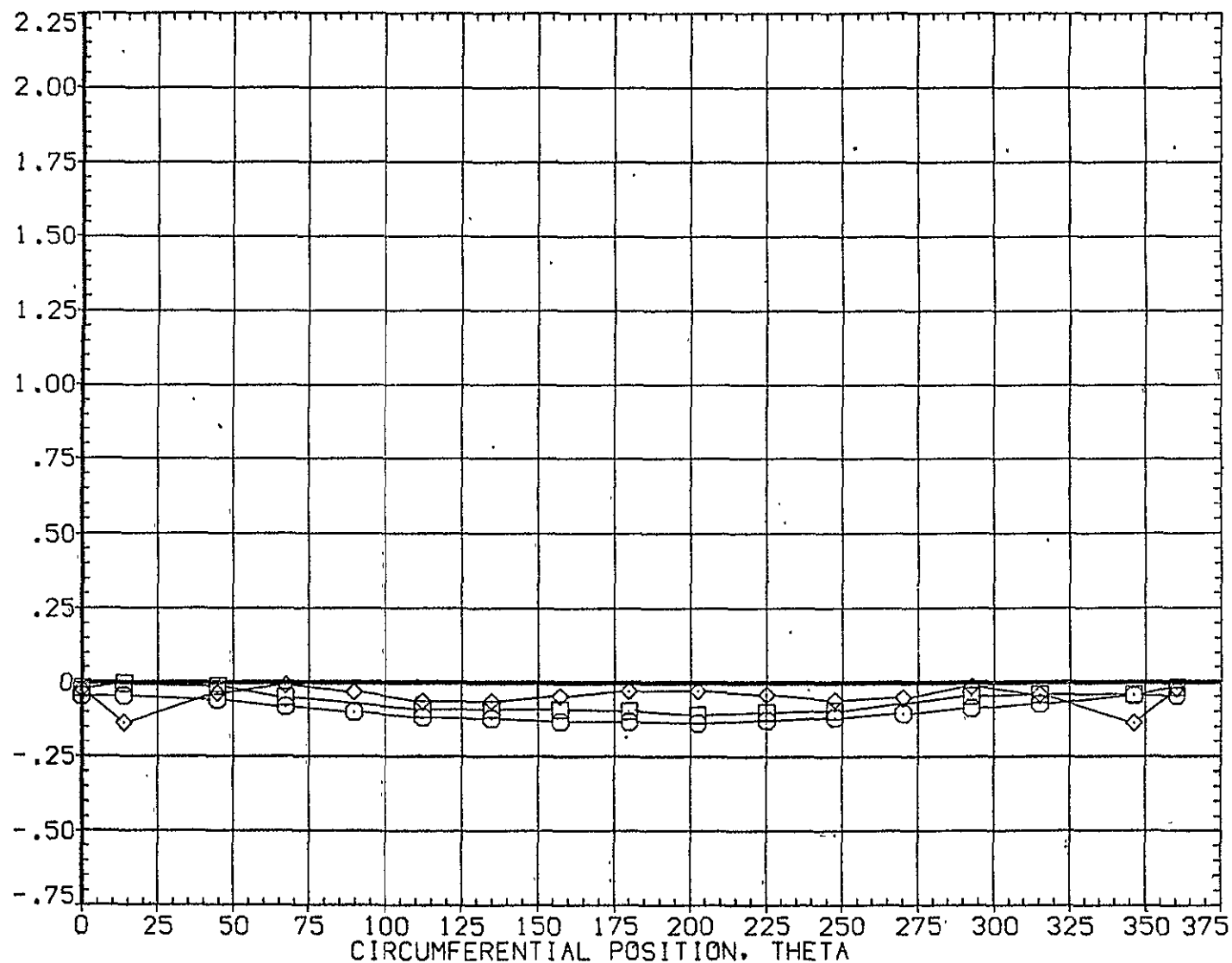


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(PIA034)

SYMBOL

○
□
◇

X/LB

.610
.735
.860

ALPHA

3.770

MACH

1.960

BETA
MOUNT

PARAMETRIC VALUES

.000
1.000

OFFSET
PHI

.000
180.000

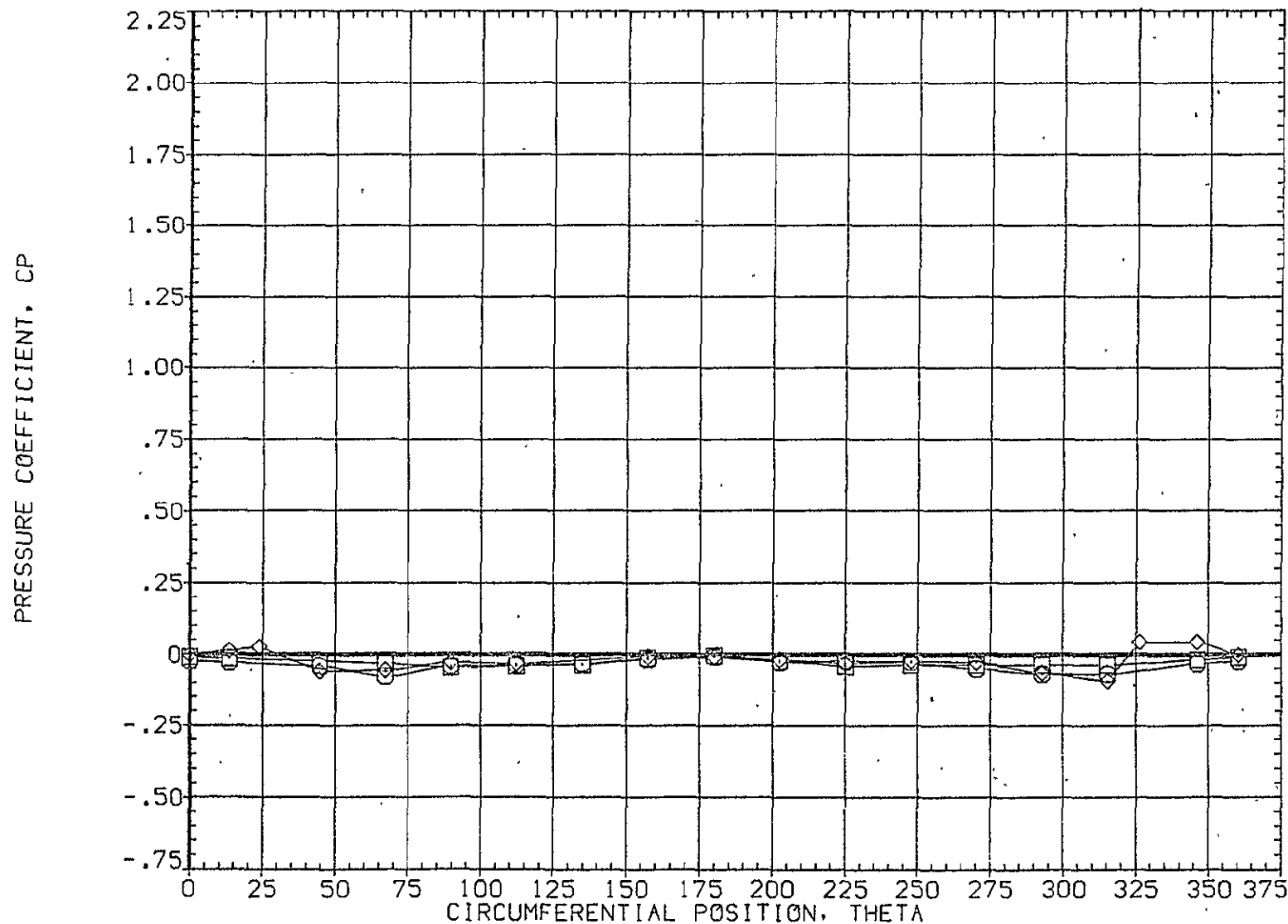


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	3.770	1.960		.000	.000
□	.923			MOUNT	1.000	PHI 180.000
◇	.954					

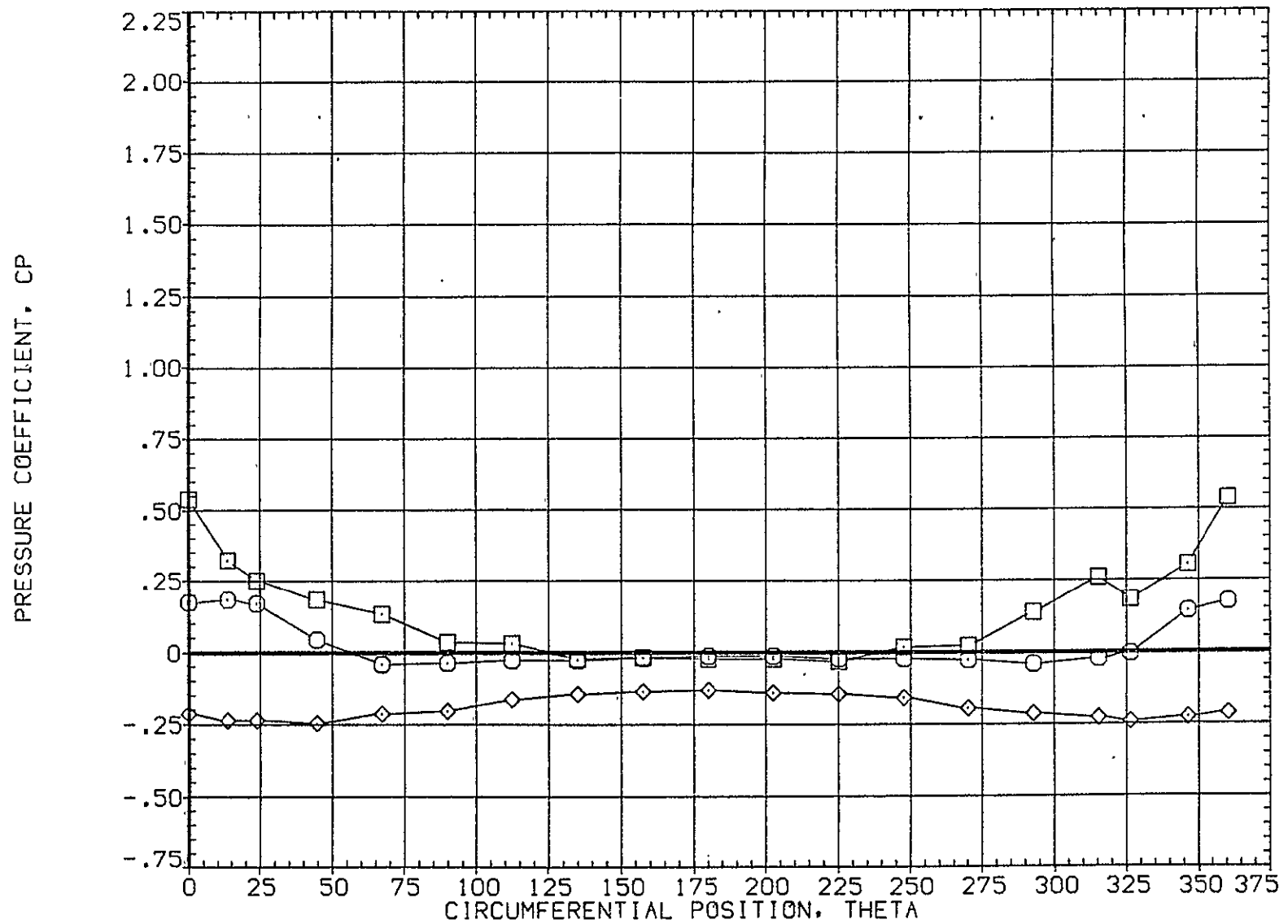


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 180.000
○	.053	7.820	1.960			
□	.108					
◇	.162					

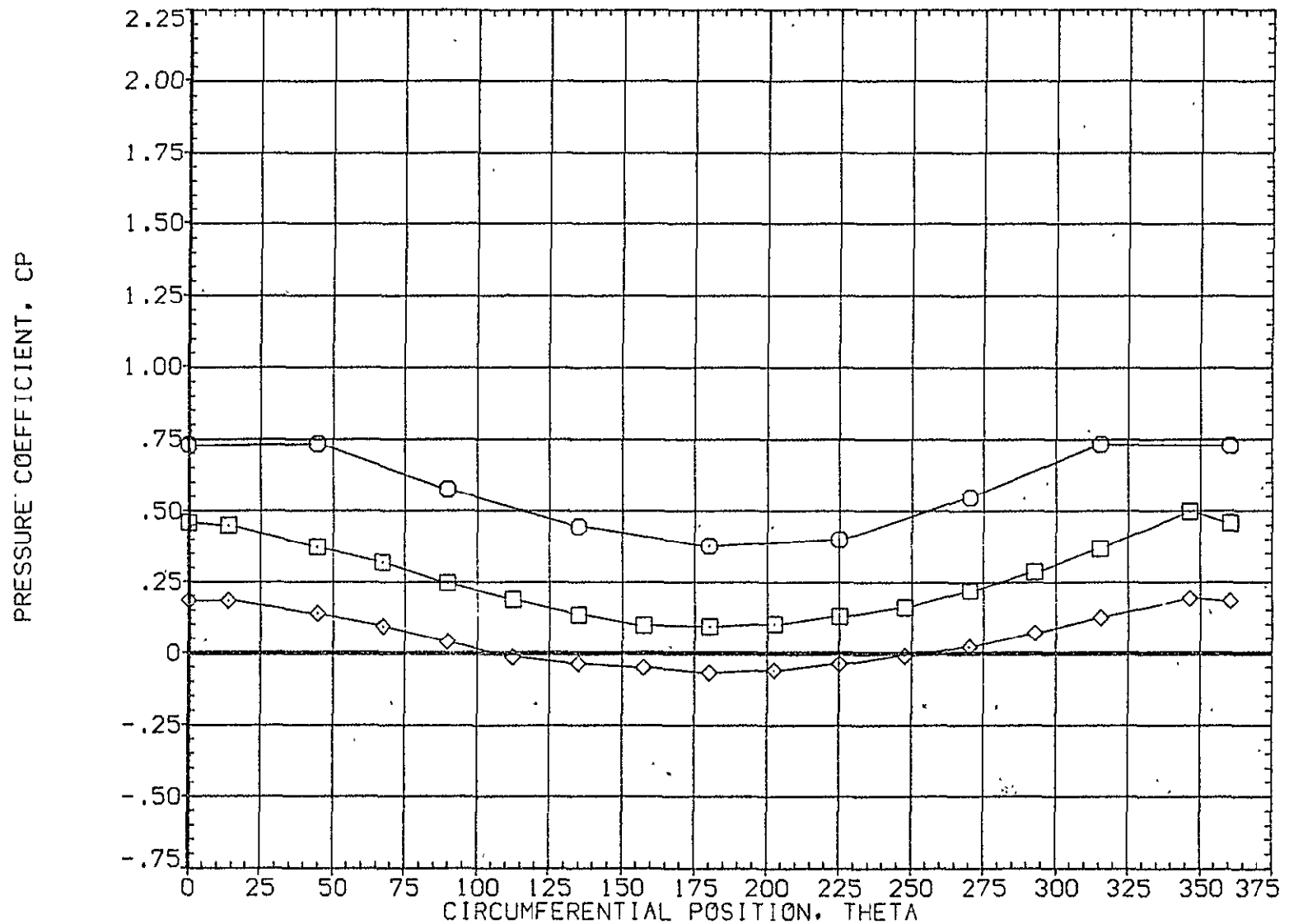


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	7.820	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	.000
Mount	PHI	180.000

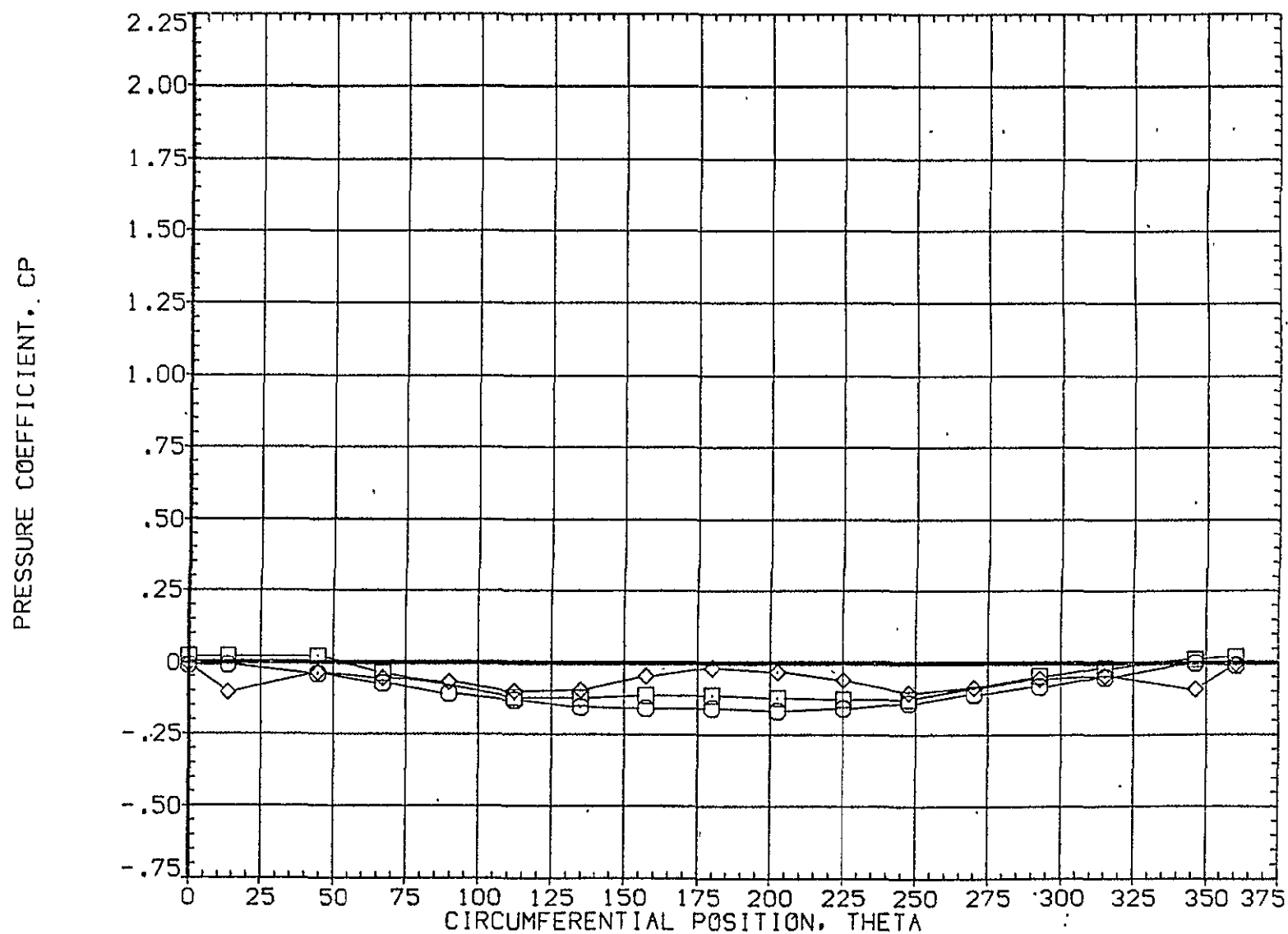


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A035)

SYMBOL	X/LB	ALPHA	MACH
○	.610	7.820	1.960
□	.735		
◇	.860		

BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	180.000

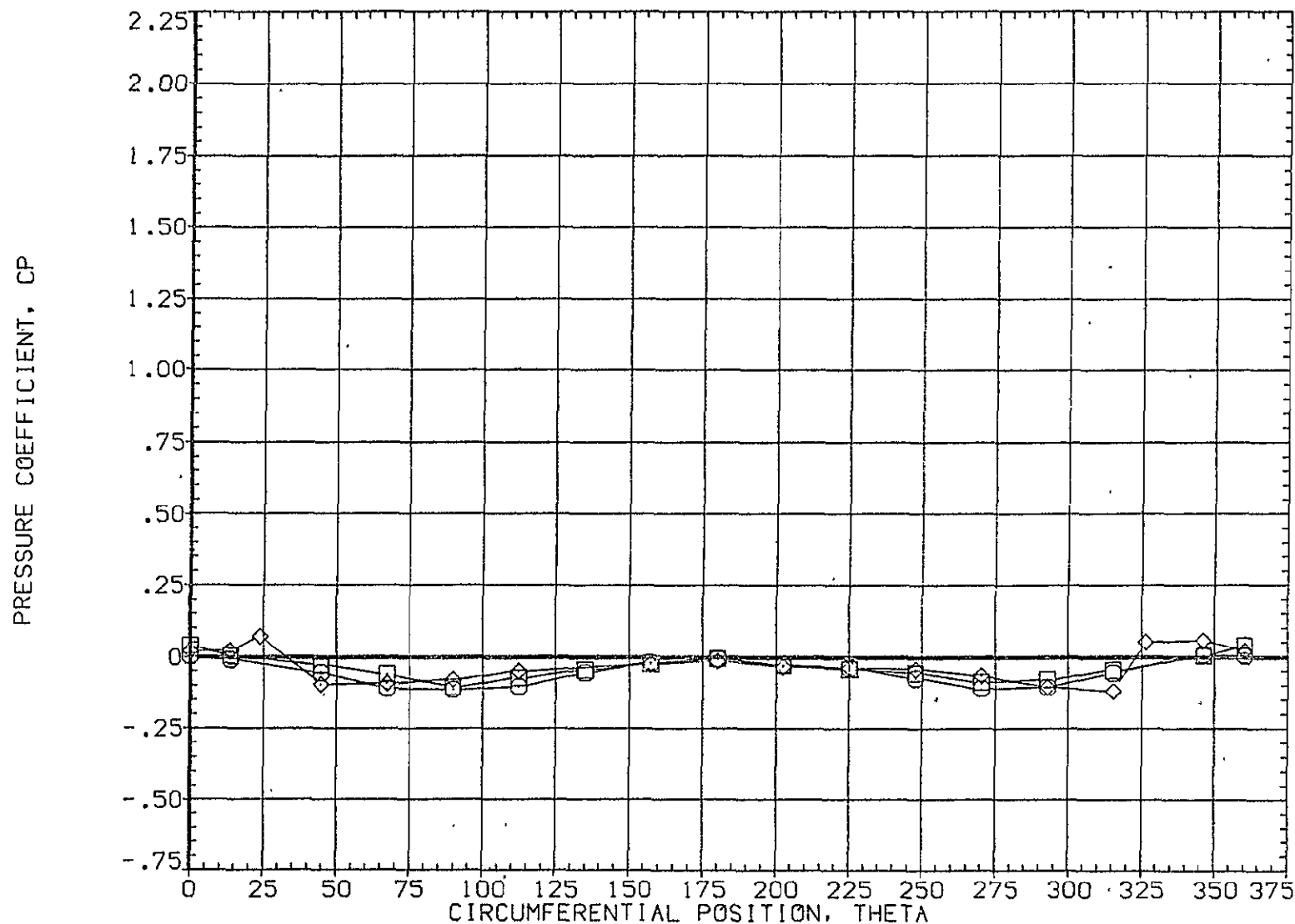


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.892	7.820	1.960		.000	.000
□	.923				1.000	180.000
◇	.954					

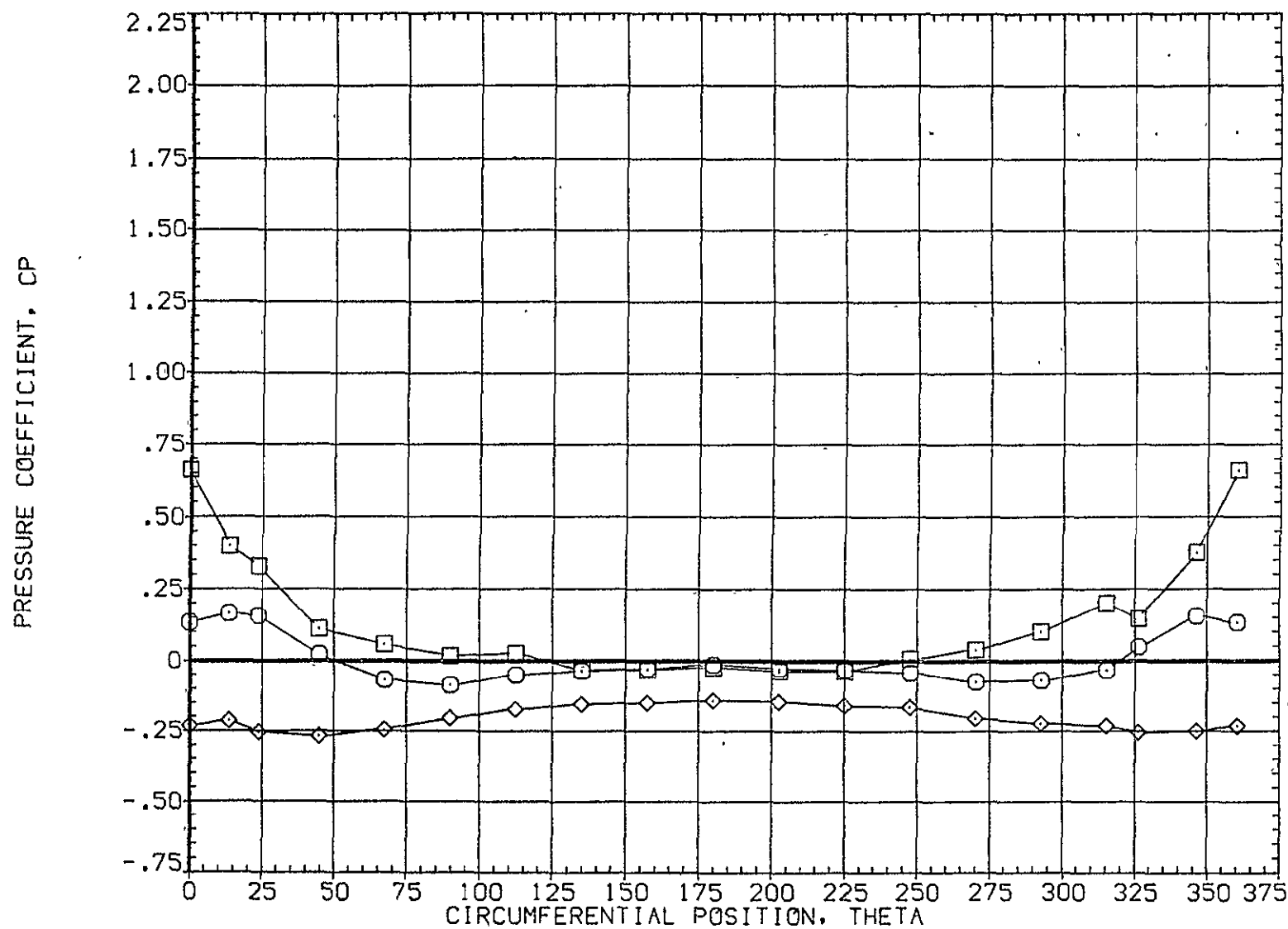


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A036)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	20.000	
○	.055	12.570	1.970	MOUNT	1.000	PHI	180.000
□	.108						
◇	.162						

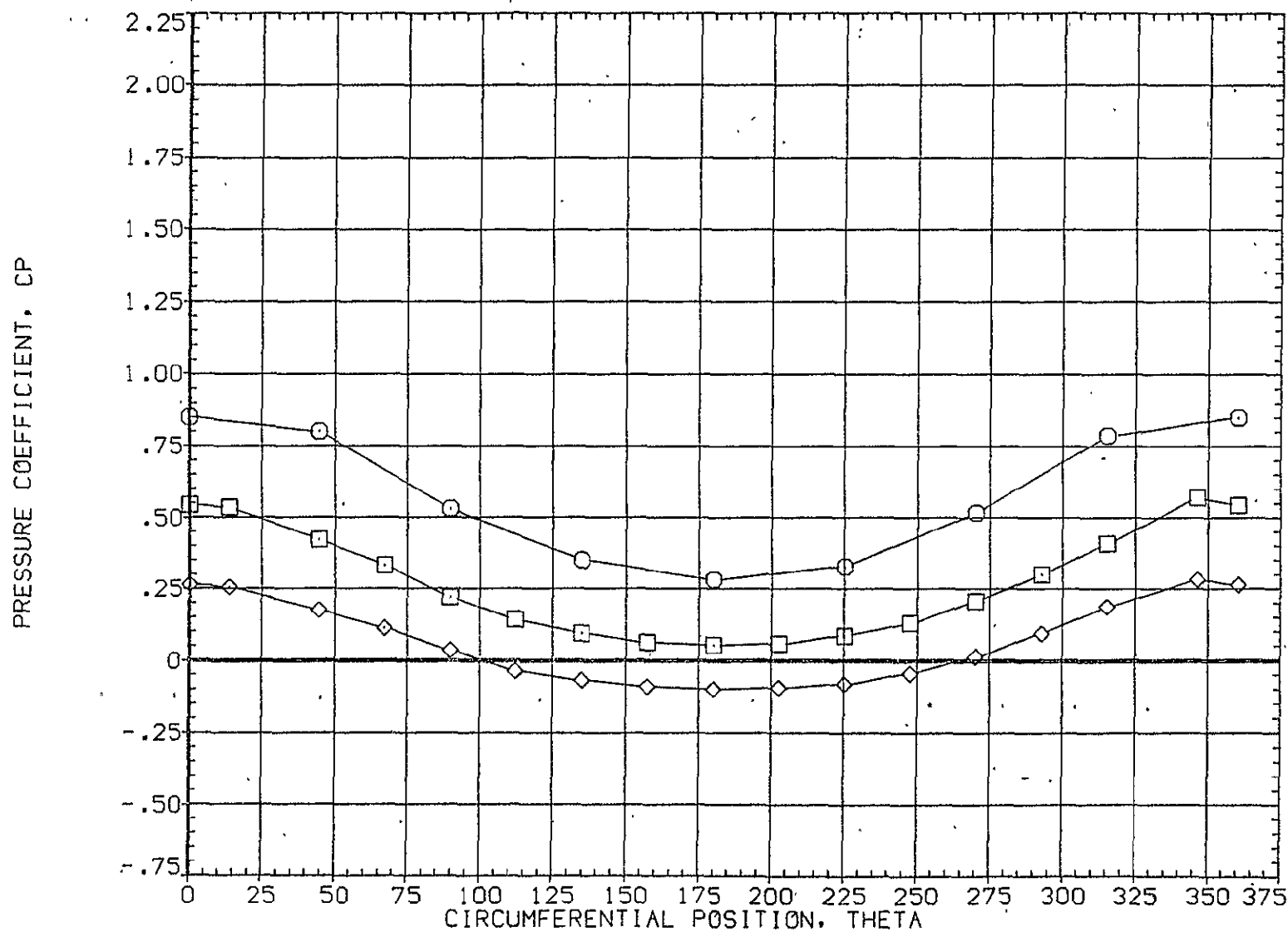


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	12.570	1.970	MOUNT	1.000	PHI
□	.322					180.000
◇	.518					

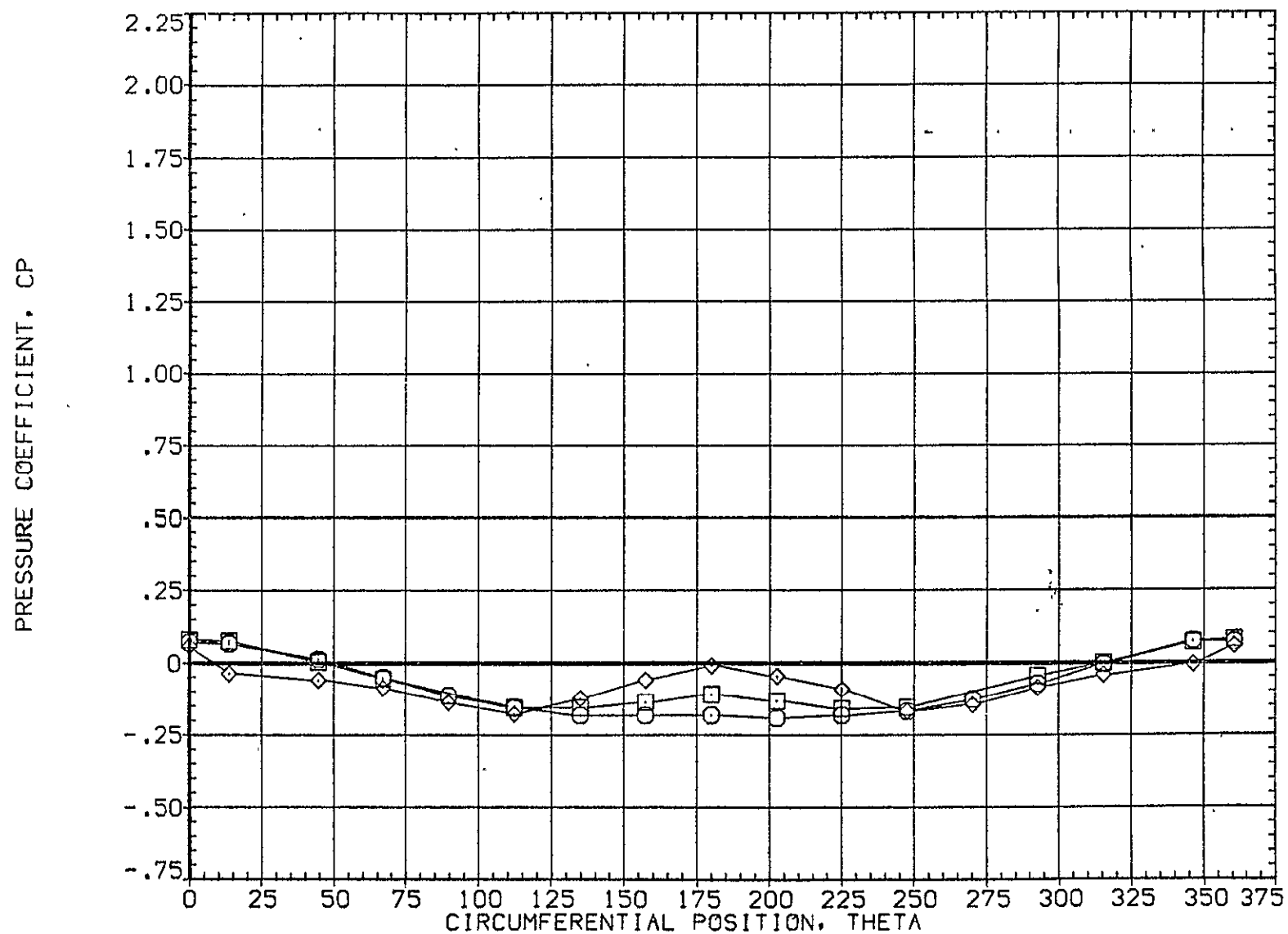


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A036)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	12.570	1.970	MOUNT	.000 OFFSET 20.000
□	.735				1.000 PHI 180.000
◇	.860				

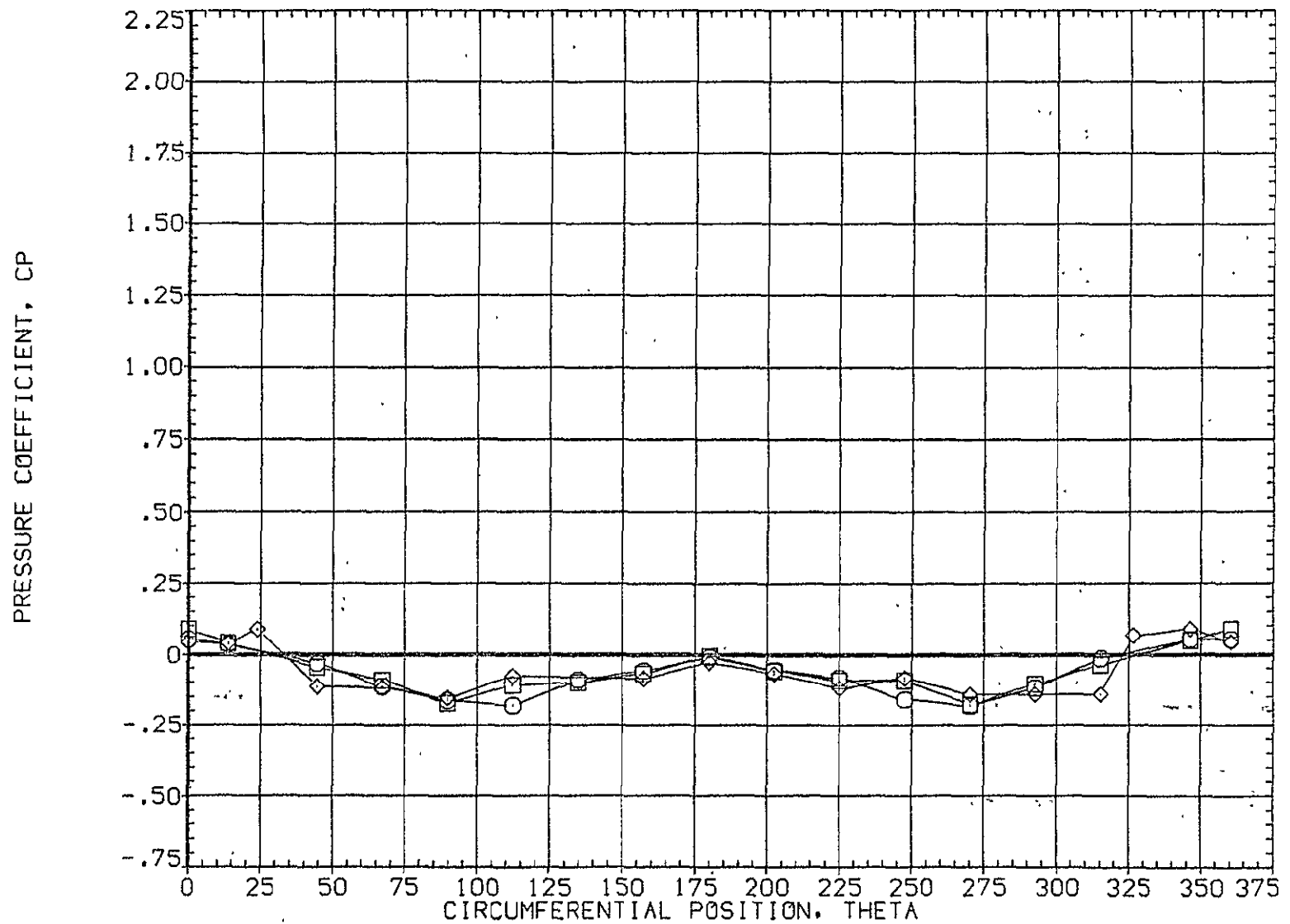


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.892	12.570	1.970	.000	OFFSET 20.000
□	.923			1.000	PHI 180.000
◇	.954				

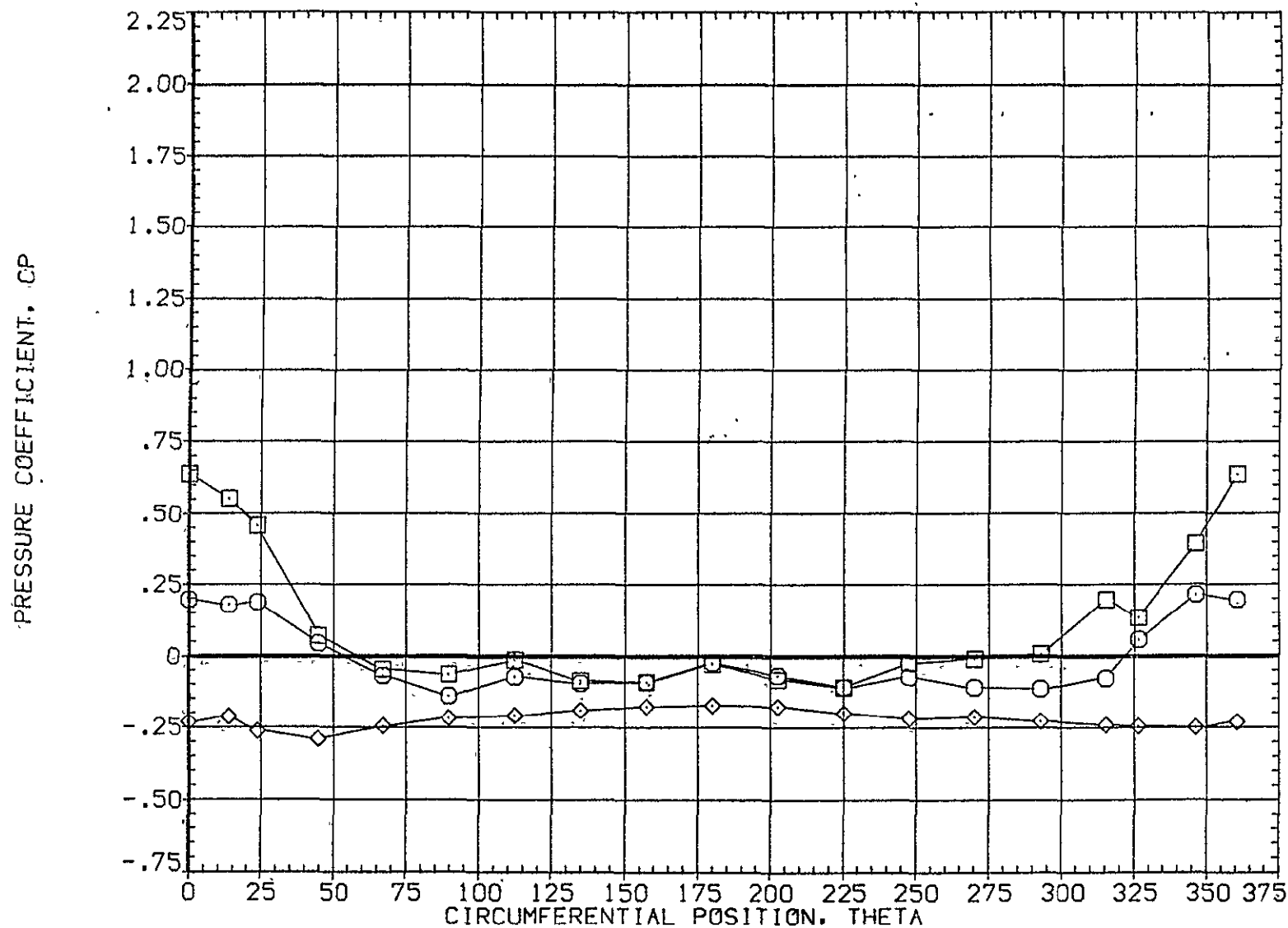


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A037)

SYMBOL	X/LB	ALPHA	MACH
○	.055	16.660	1.960
□	.108		
◇	.162		

BETA	PARAMETRIC VALUES	OFFSET	
MGUNT	.000	PHI	20.000
	1.000		180.000

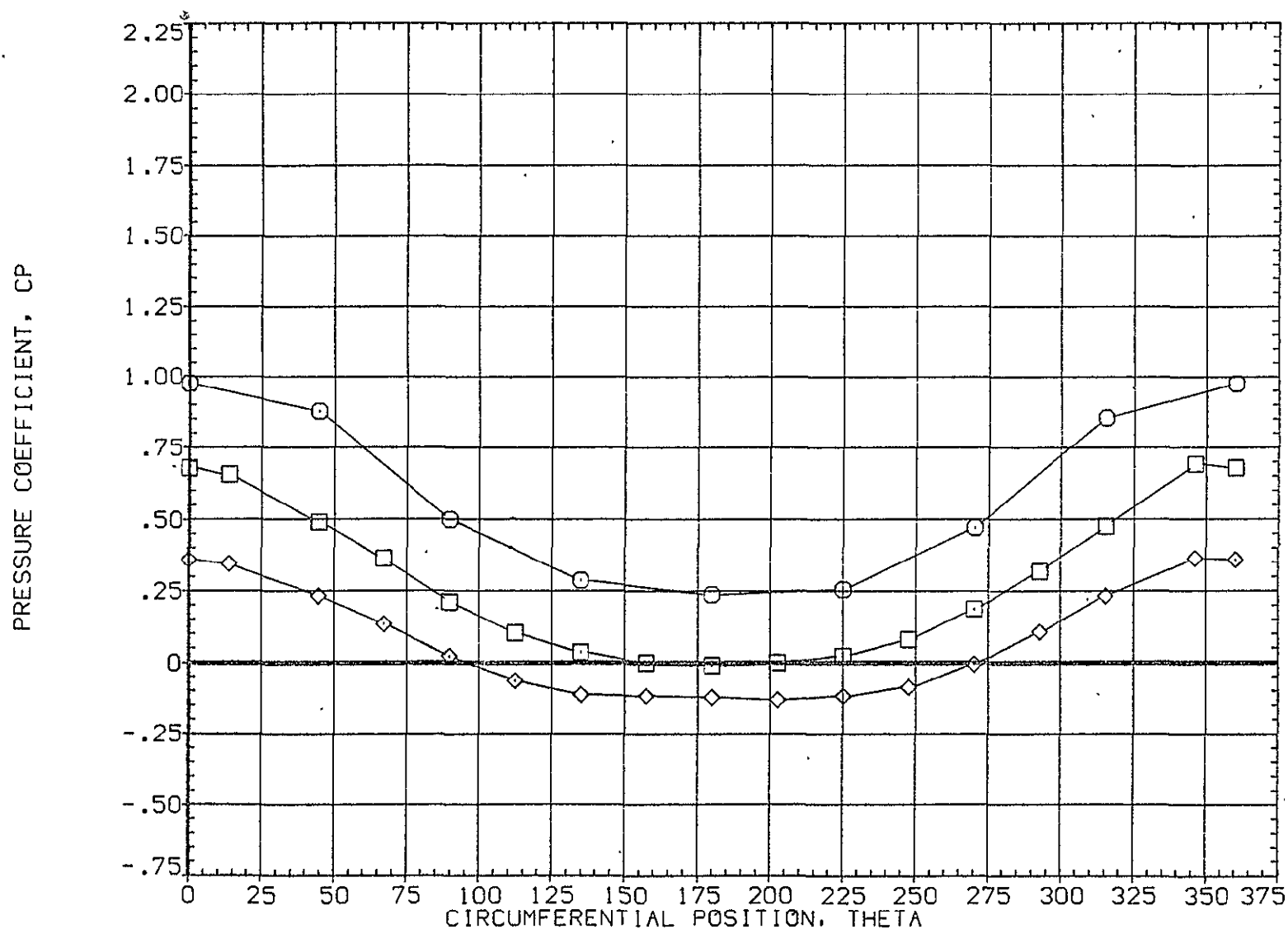


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	16.660	1.960	BETA	.000	OFFSET 20.000
□	.322			MOUNT	1.000	PHI 180.000
◇	.518					

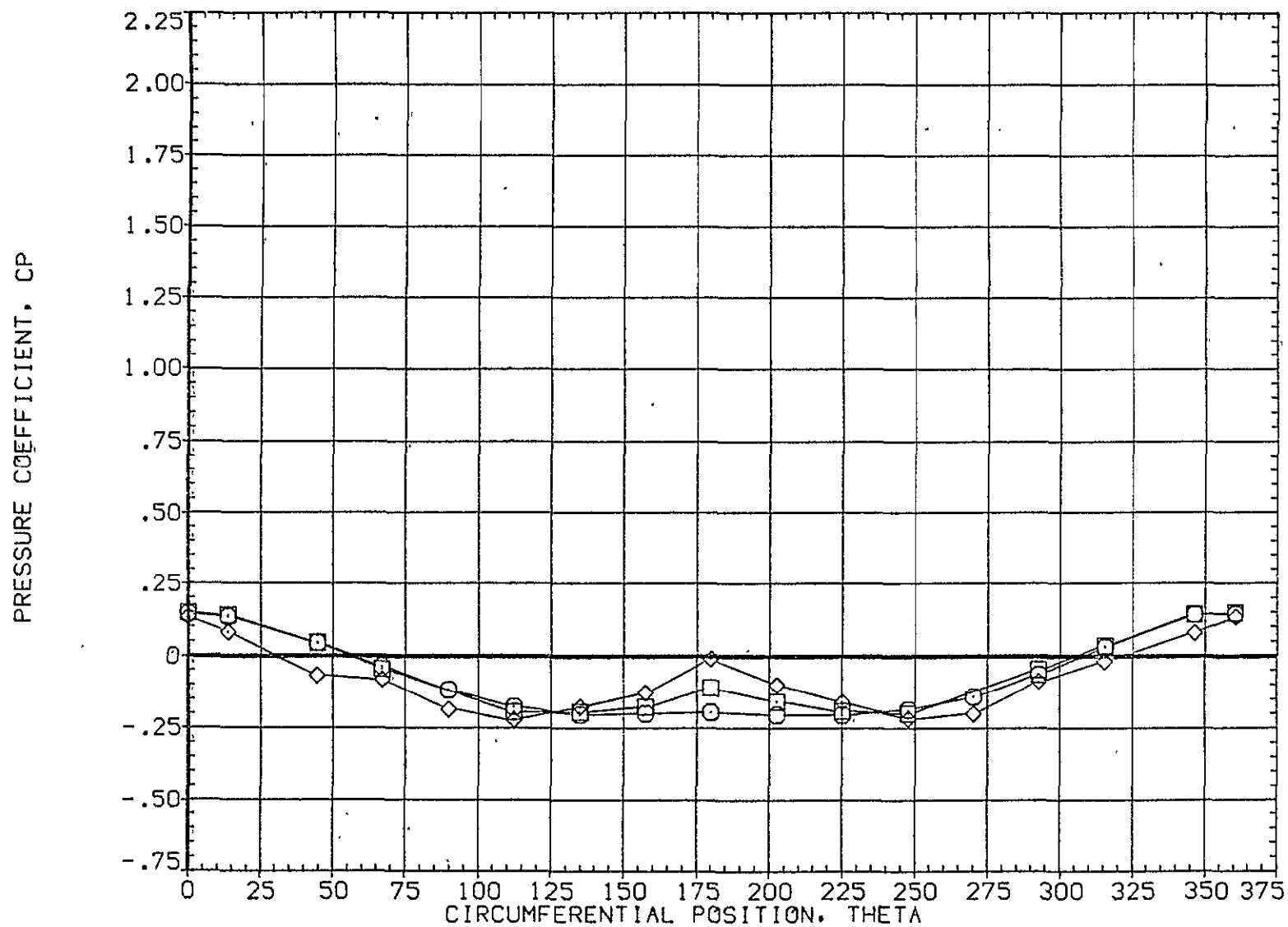


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A037)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	16.660	1.960	MOUNT	.000	PHI	180.000
□	.735				1.000		
◇	.860						

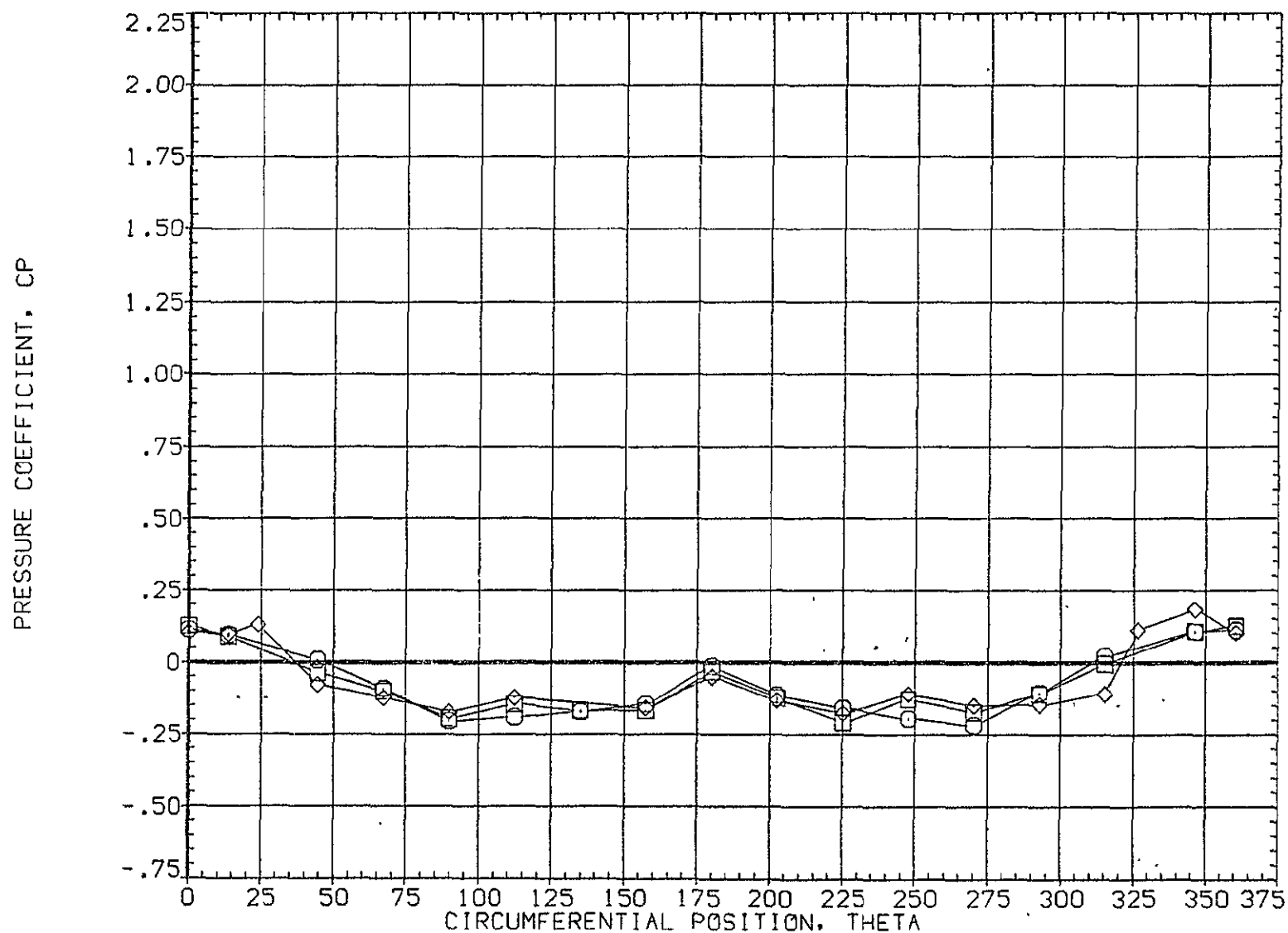


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET :	
				MOUNT	PHI	
○	.892	16.660	1.960			20.000
□	.923					
◇	.954					180.000

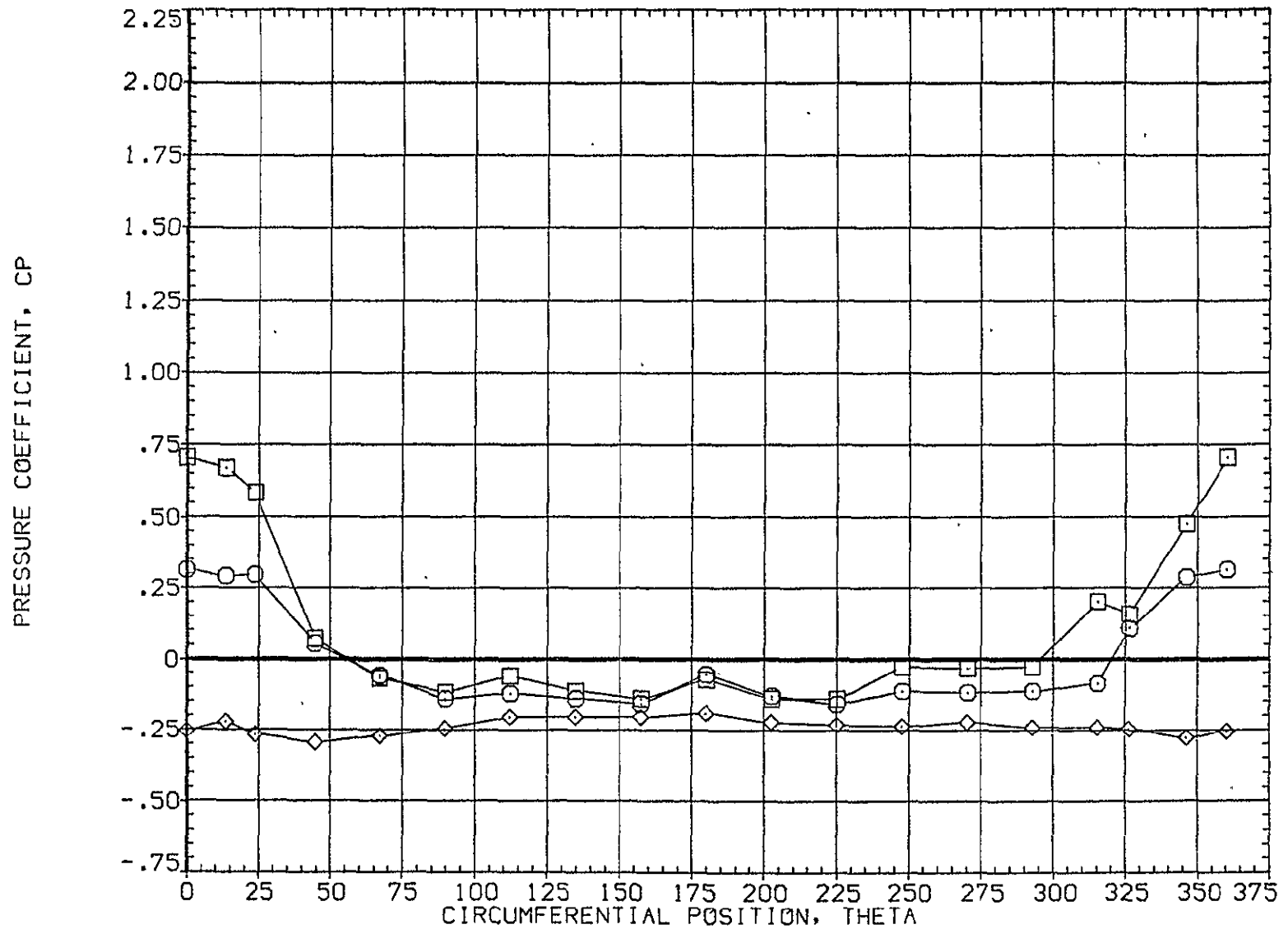


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A038)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	20.740	1.960	.000	OFFSET 20.000
□	.108			1.000	PHI 180.000
◇	.162				

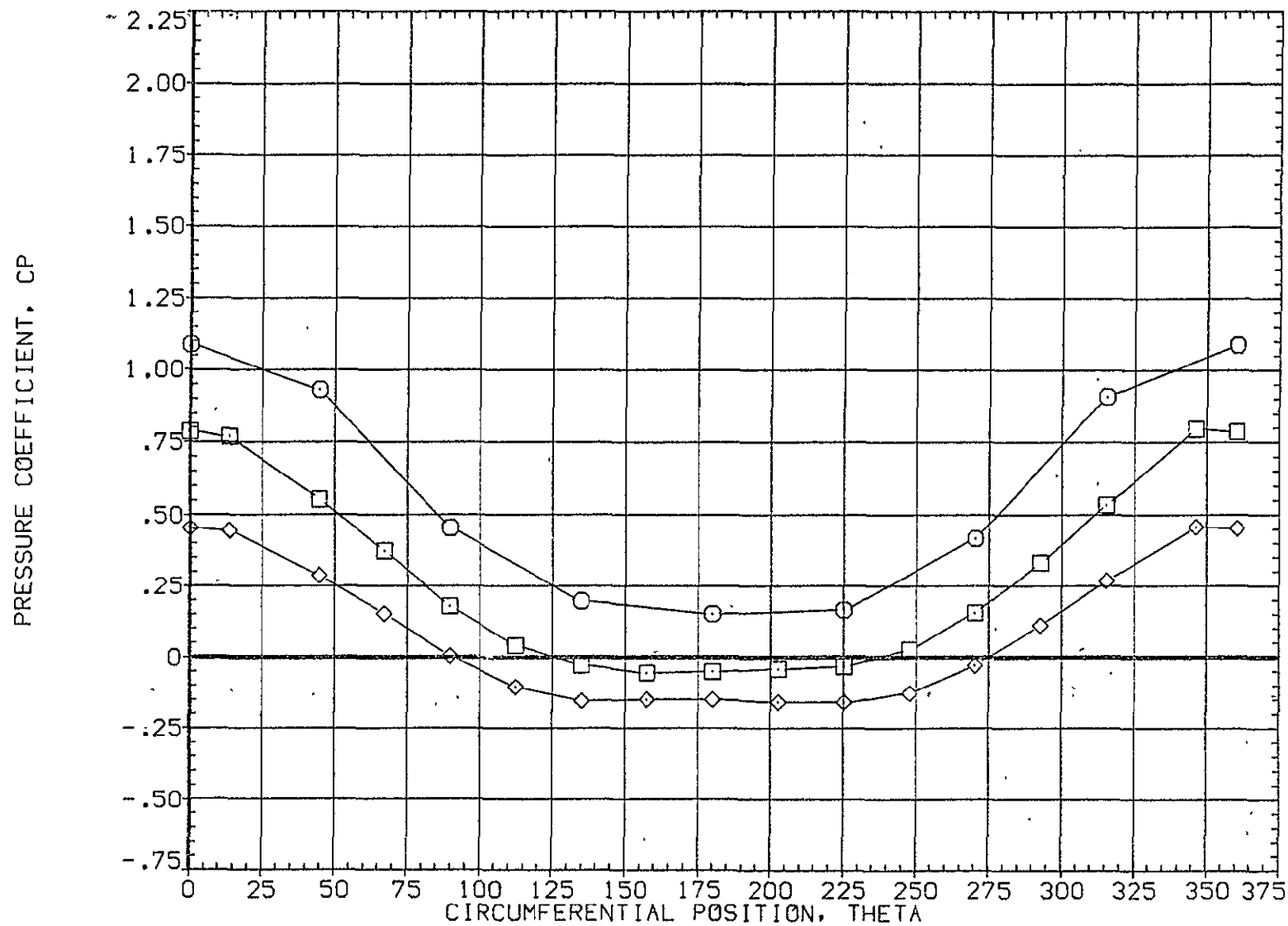


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	20.740	1.960	BETA	.000	OFFSET 20.000
□	.322			MOUNT	1.000	PHI 180.000
◇	.518					

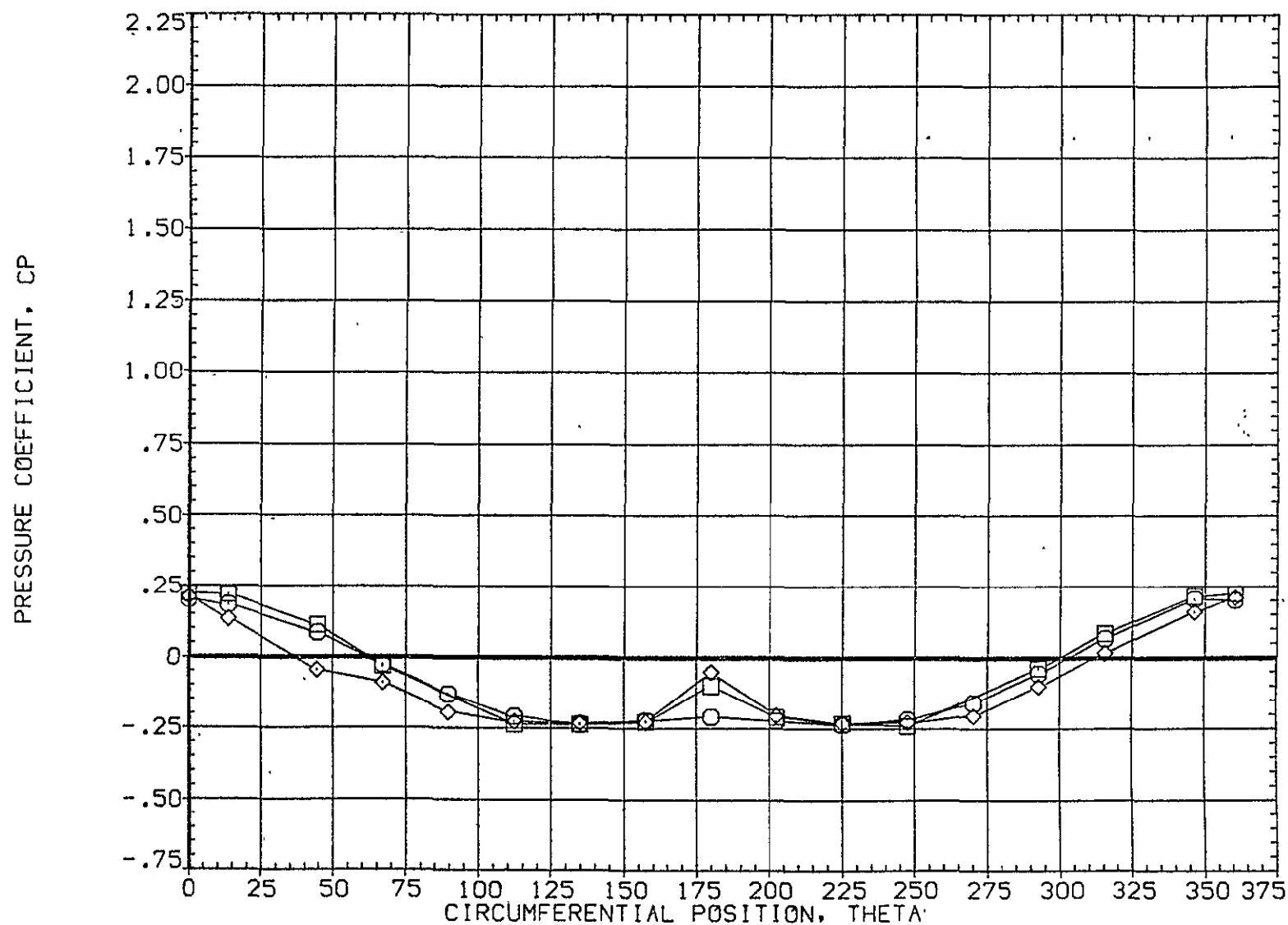


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A038)

SYMBOL	X/LB	ALPHA	MACH
○	.610	20.740	1.960
□	.735		
◇	.860		

PARAMETRIC VALUES	
BETA	.000
OFFSET	20.000
MOUNT	1.000
PHI	180.000

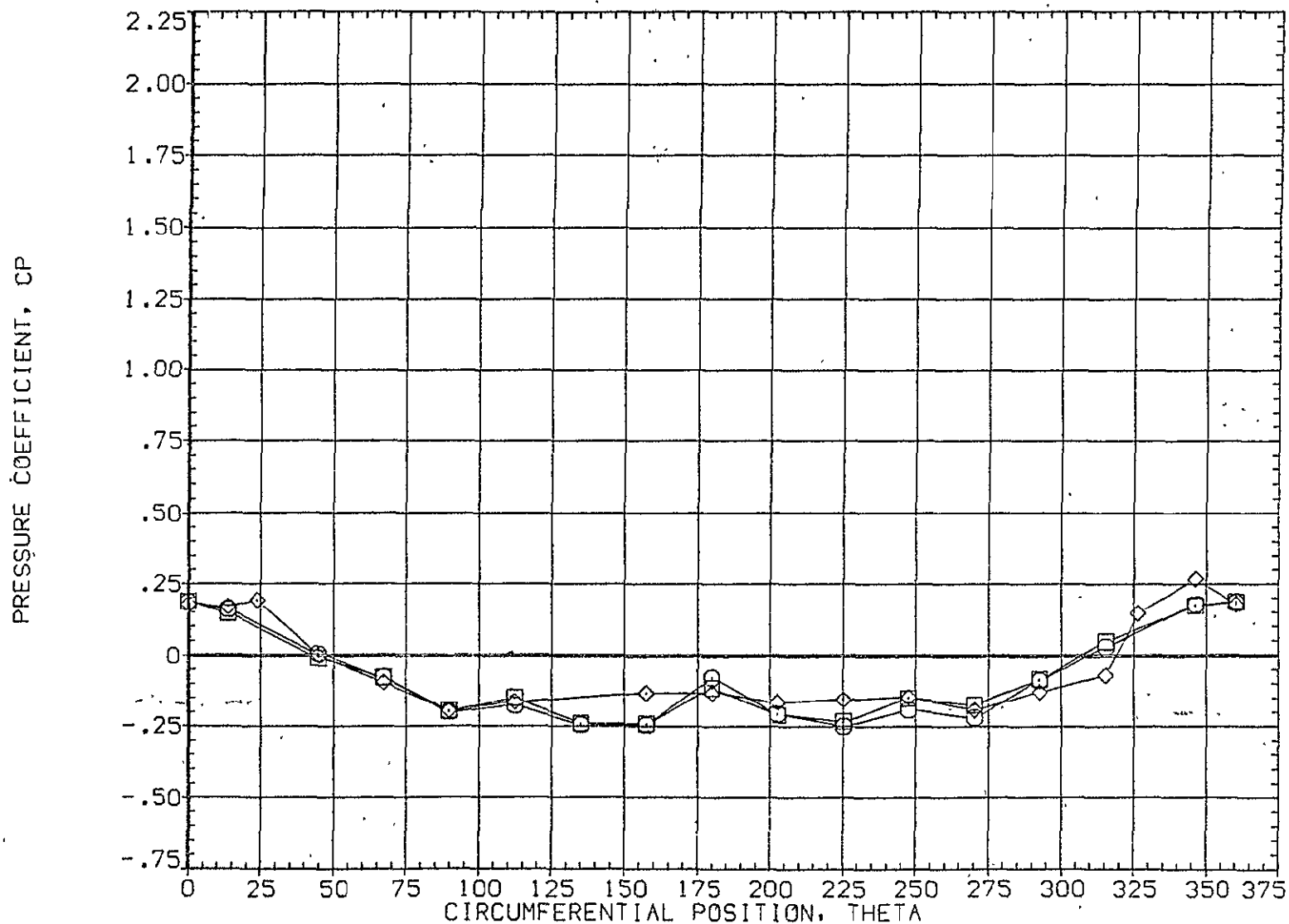


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.892	20.740	1.960	1.000	PHI	180.000
□	.923					
◇	.954					

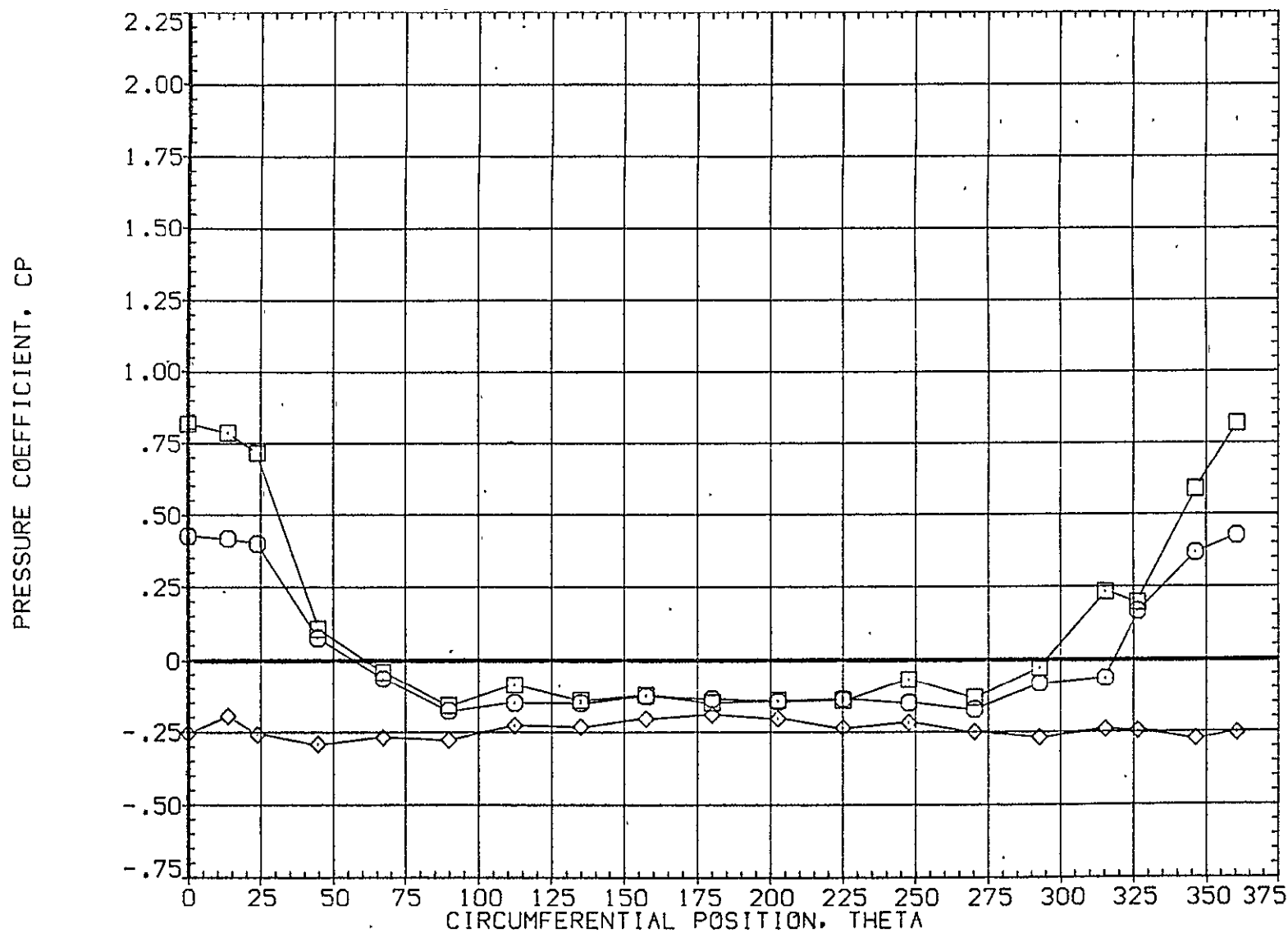


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A039)

SYMBOL	X/LB	ALPHA	MACH
○	.055	24.870	1.960
□	.108		
◇	.162		

PARAMETRIC VALUES		
BETA	OFFSET	20.000
MOUNT	1.000	PHI 180.000

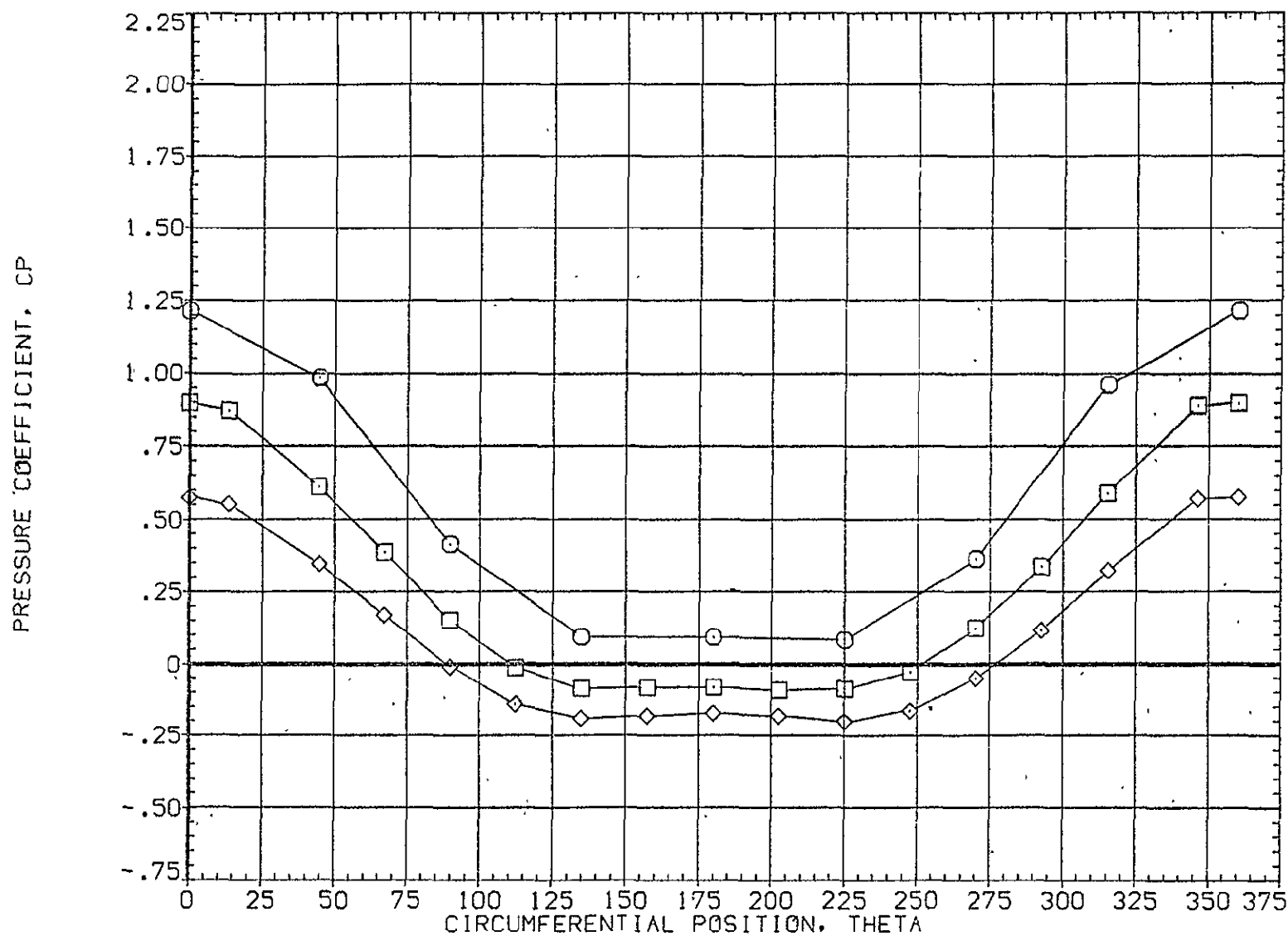


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
○	.216	24.870	1.960	MOUNT	1.000	PHI	180.000
□	.322						
◇	.518						

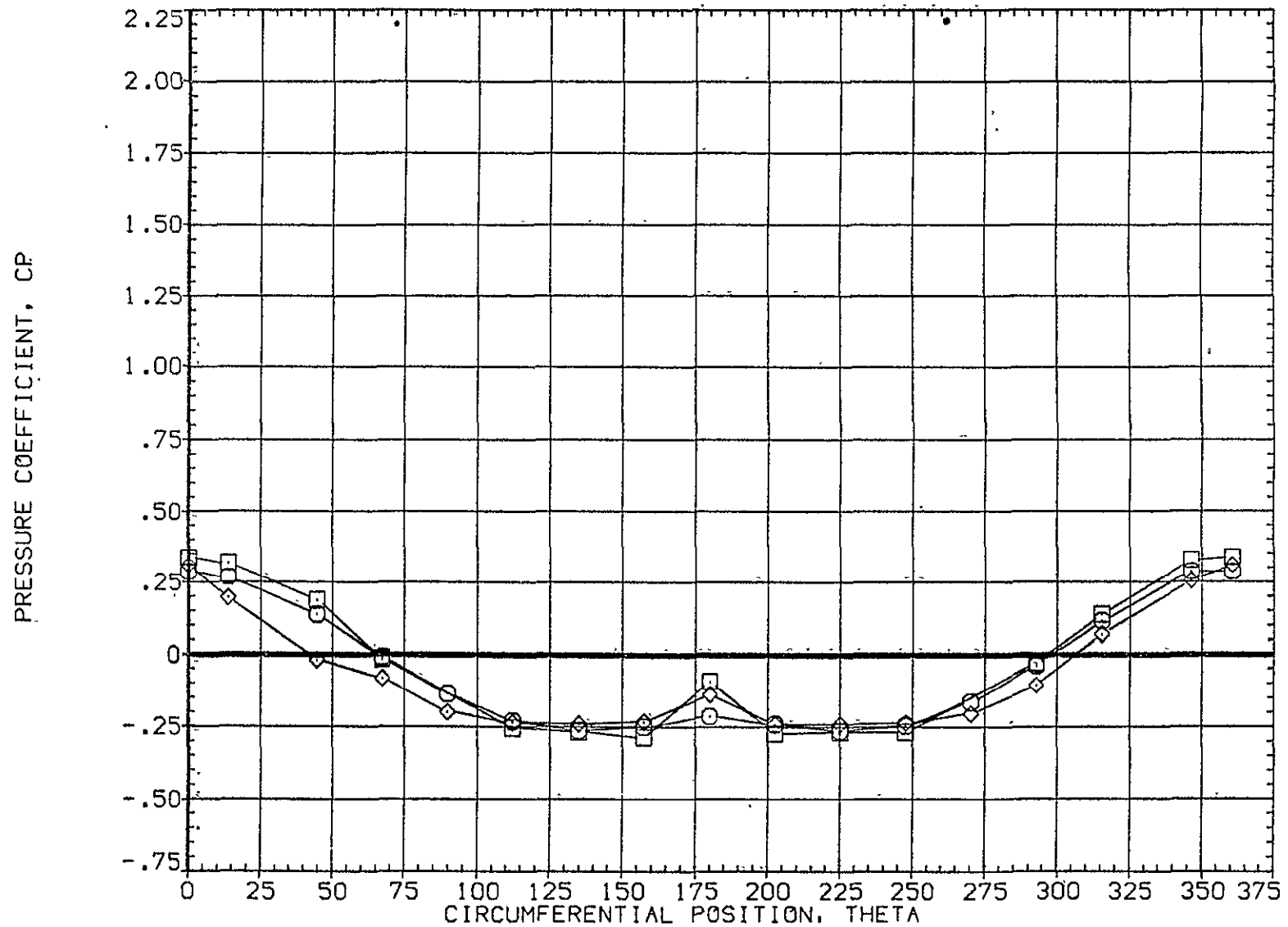


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(PIA039)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.610	24.870	1.960	MOUNT	.000	PHI	180.000
□	.735				1.000		
◇	.860						

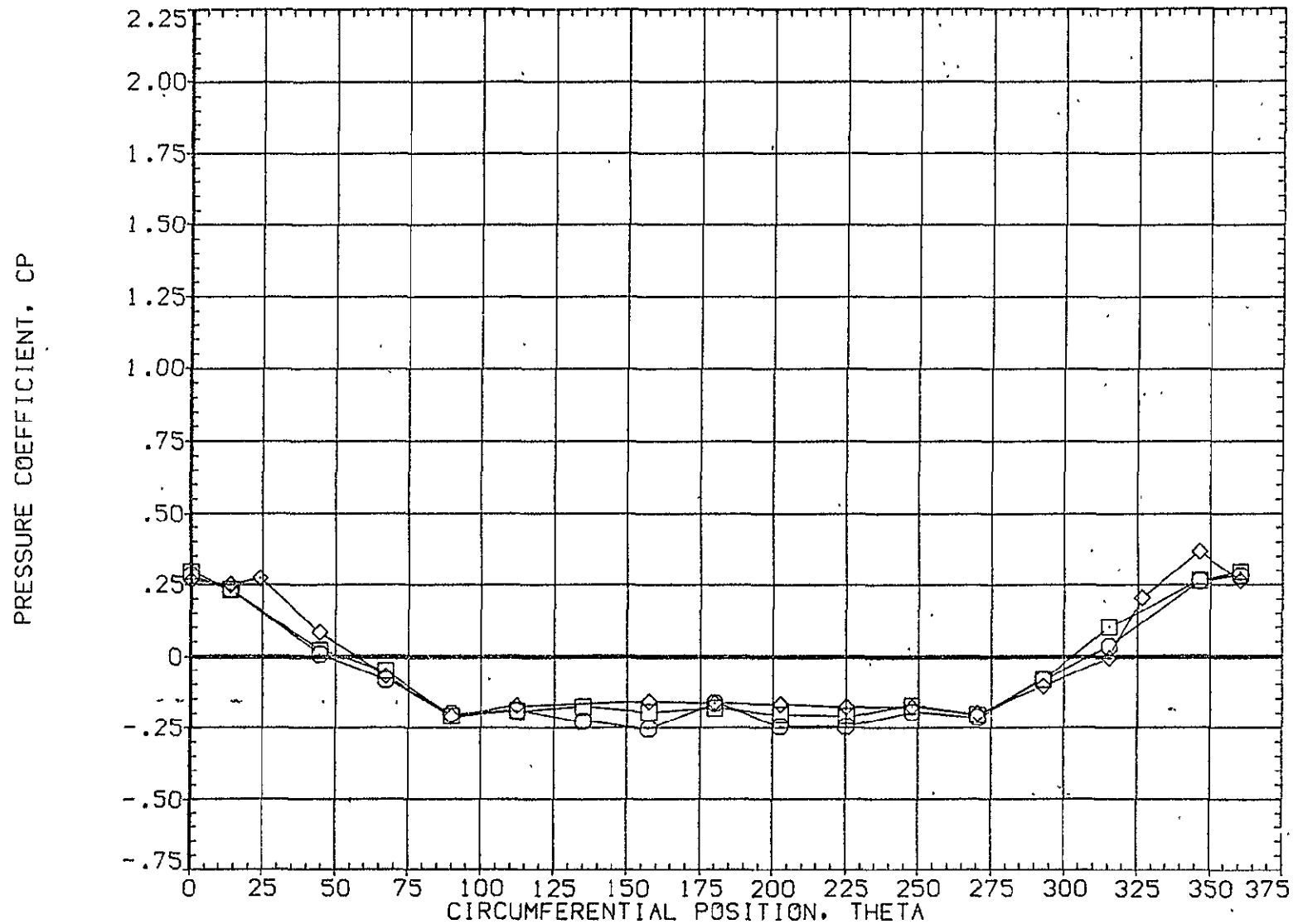


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	24.870	1.960	.000	20.000	
□	.923			1.000	PHI	180.000
◇	.954					

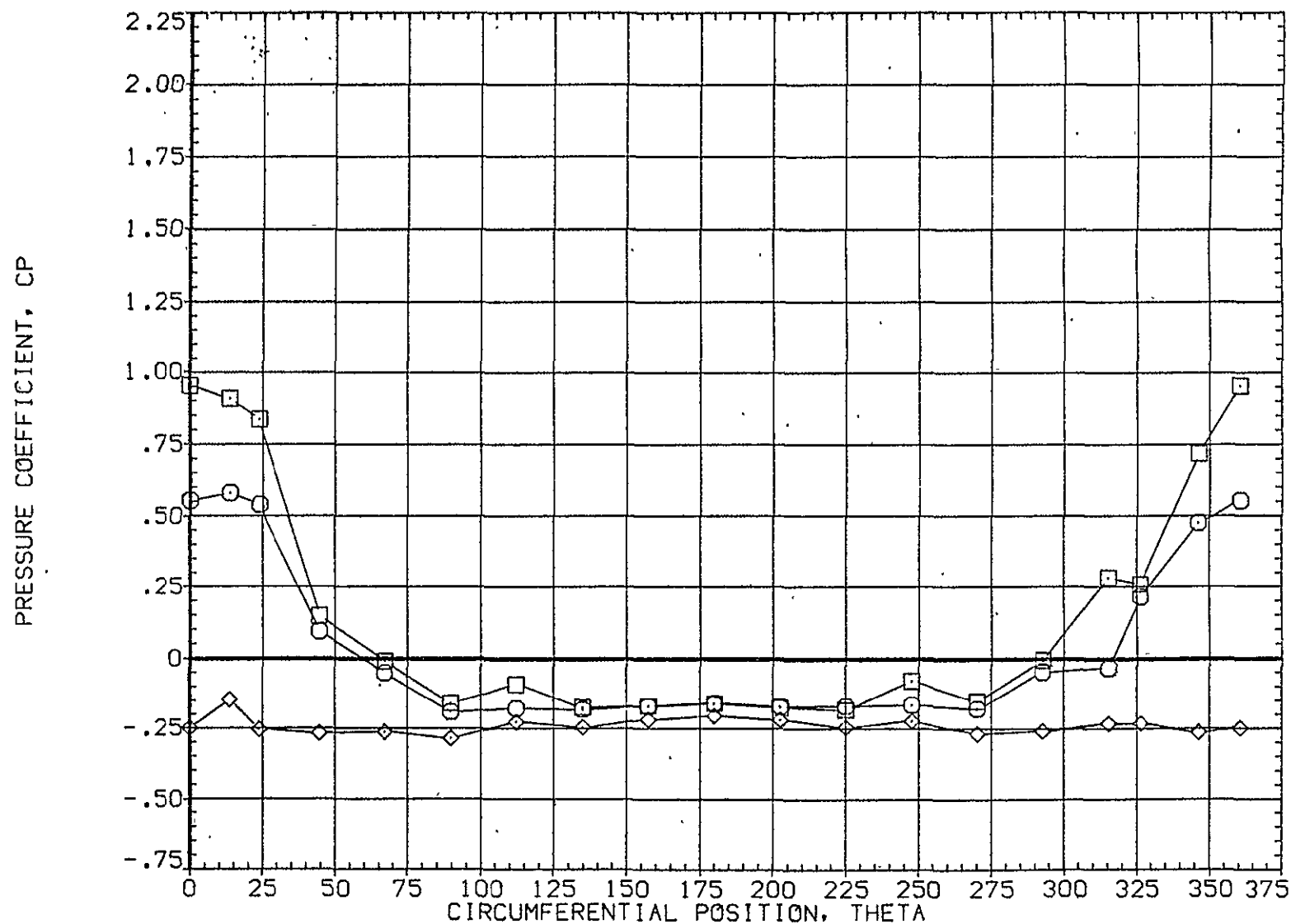


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A040)

SYMBOL	X/LB	ALPHA	MACH
○	.055	28.930	1.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

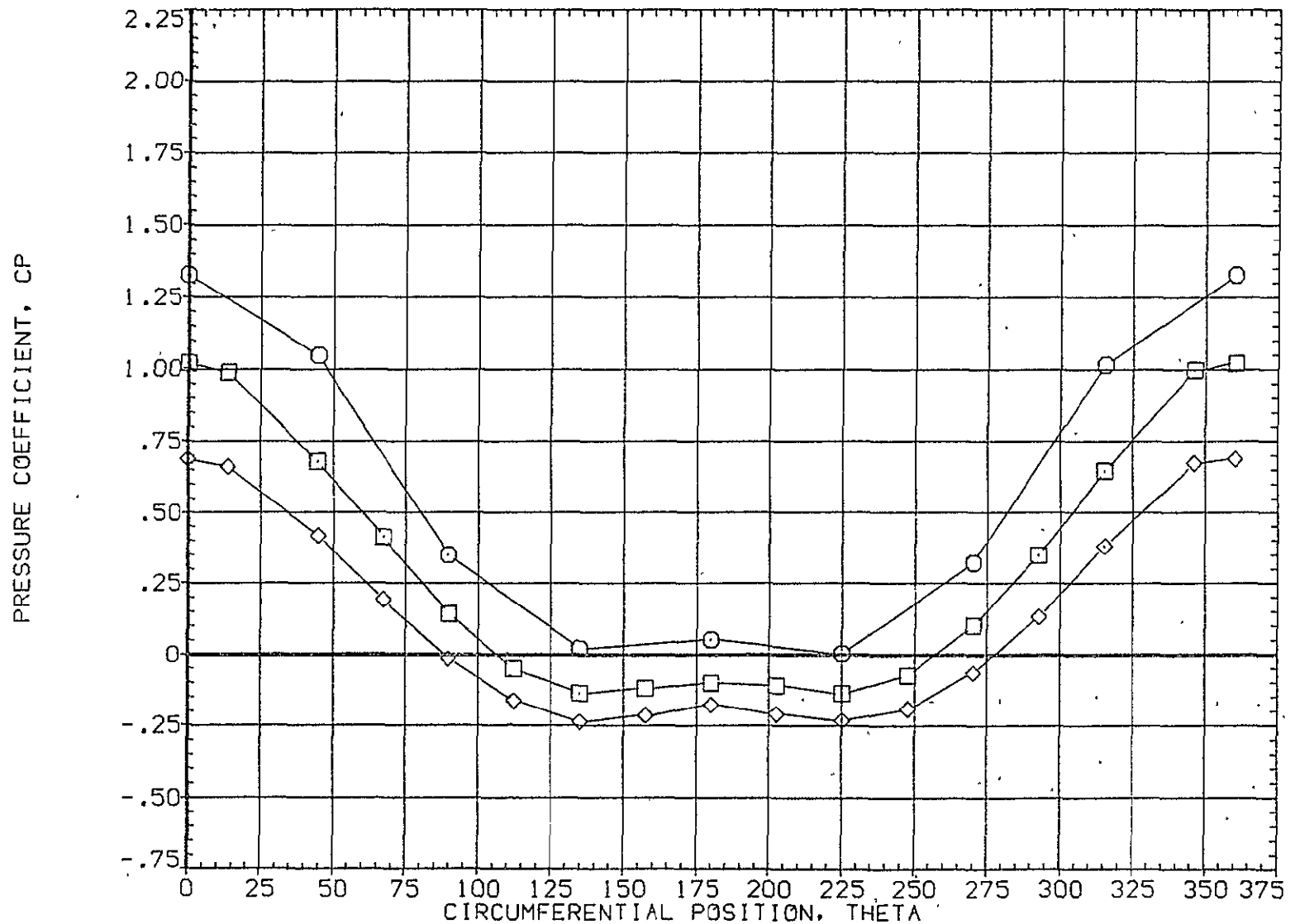


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	28.930	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

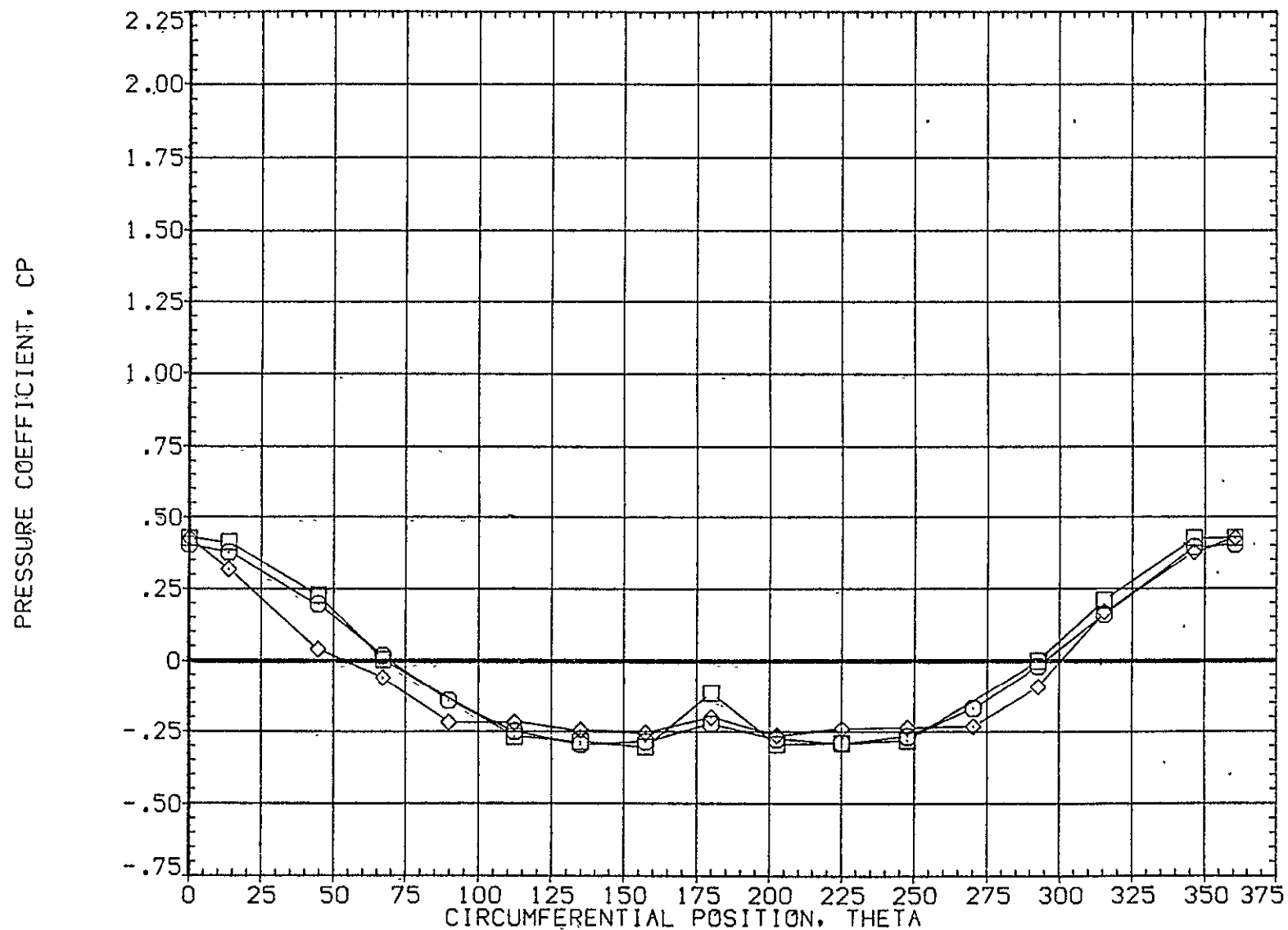


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A040)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	28.930	1.960	BETA	.000	OFFSET	20.000
□	.735			MOUNT	1.000	PHI	180.000
◇	.860						

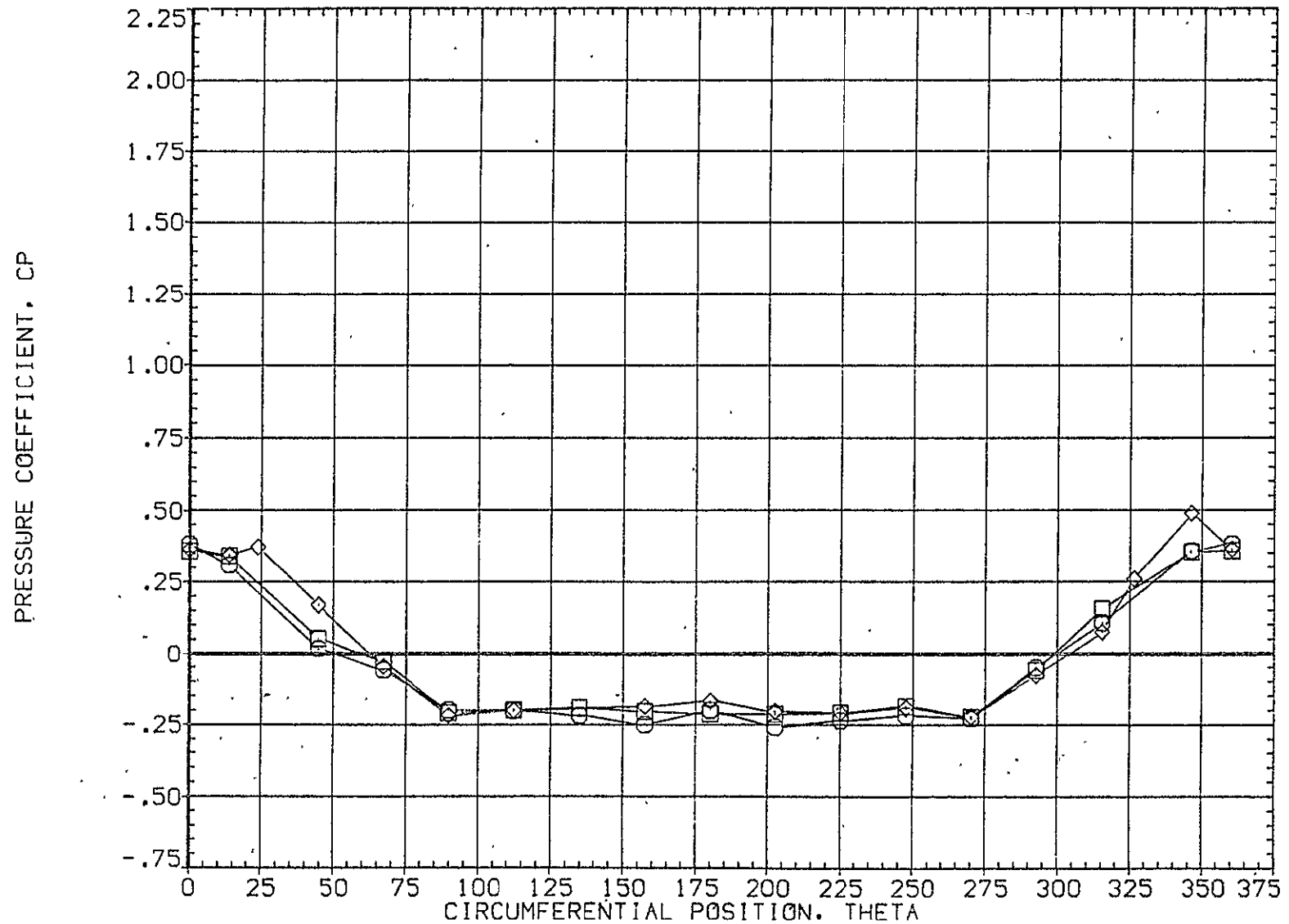


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

ALPHA

MACH

.892

28.930

1.960

.923

.954

BETA

PARAMETRIC VALUES

MOUNT

.000

OFFSET

20.000

1.000

PHI

180.000

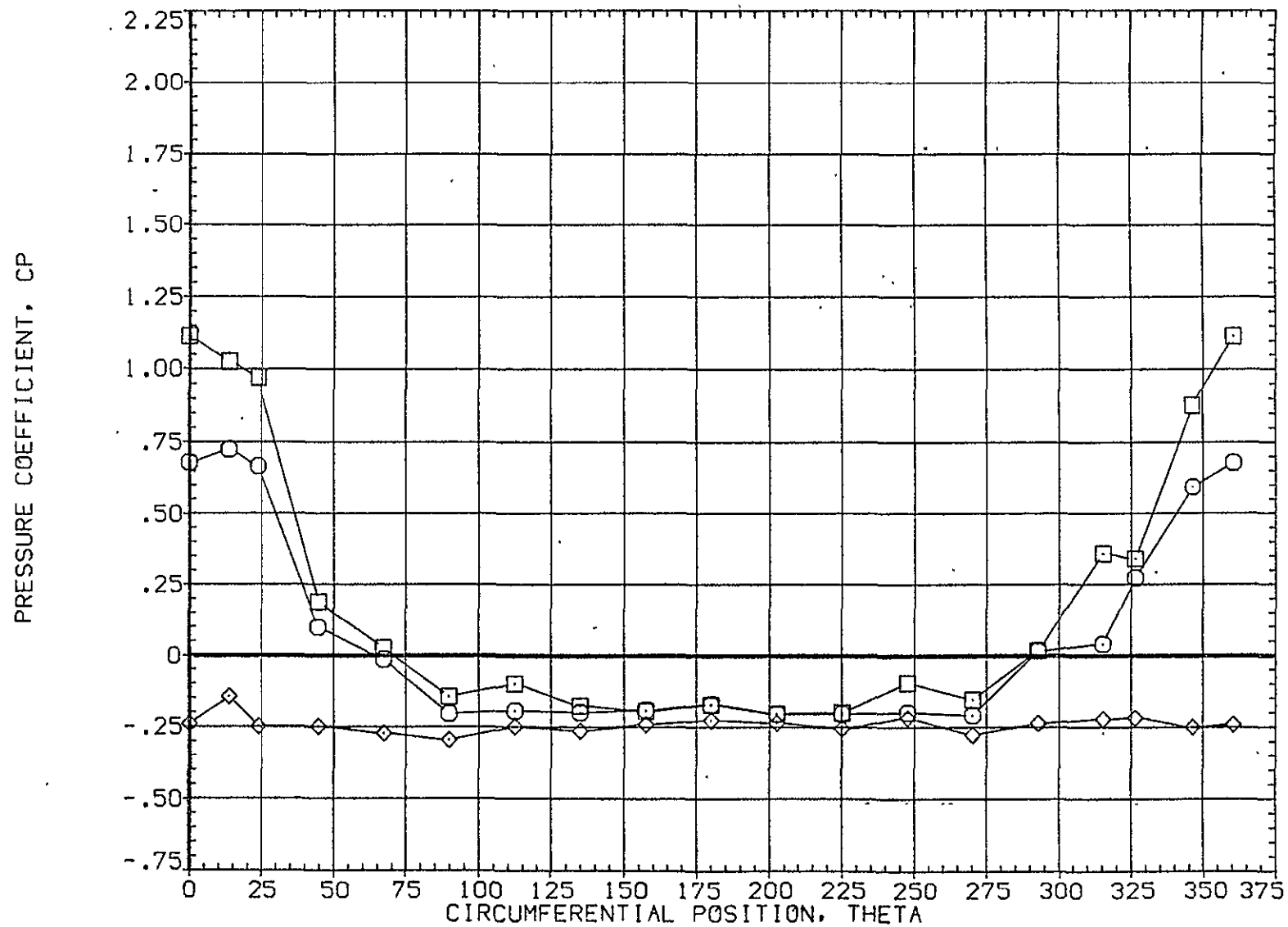


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(PIA051)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.055	-8.380	1.950	.000	.000	.000
□	.108			1.000		270.000
◇	.162					

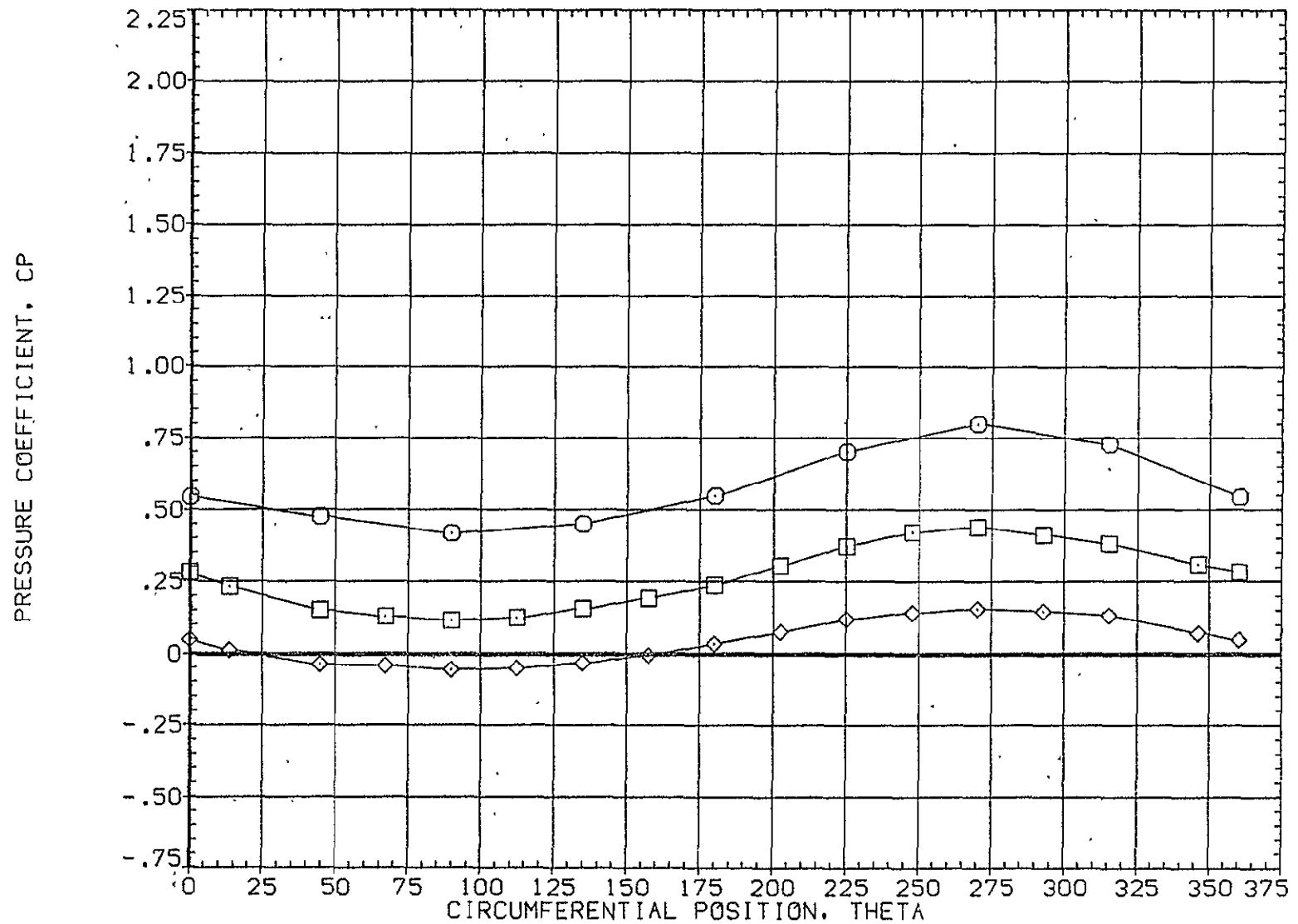


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB.	ALPHA	MACH
○	.216	-8.380	1.950
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET .000
MOUNT	1.000	PHI 270.000

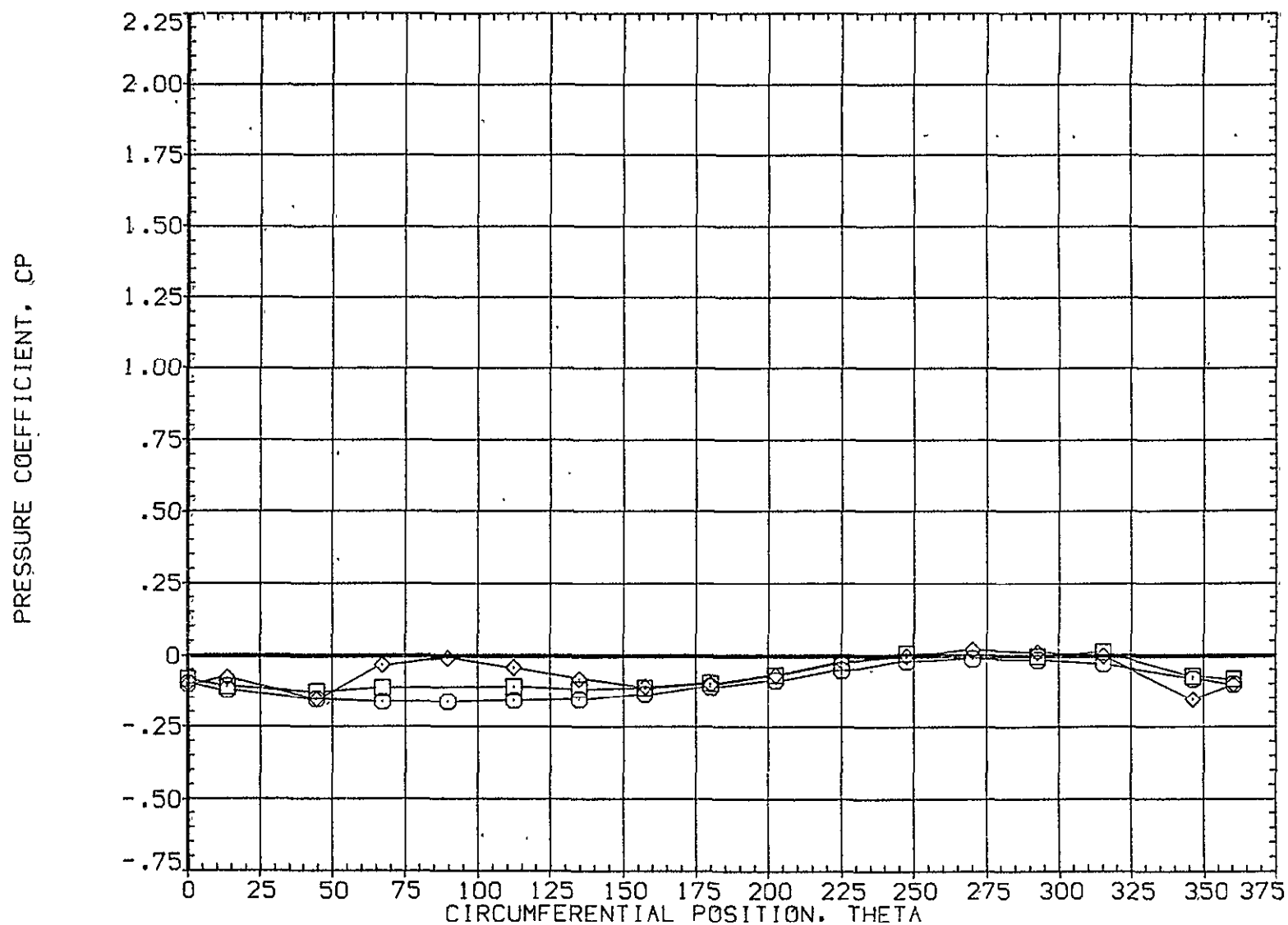


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A051)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-8.380	1.950	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	270.000
◇	.860						

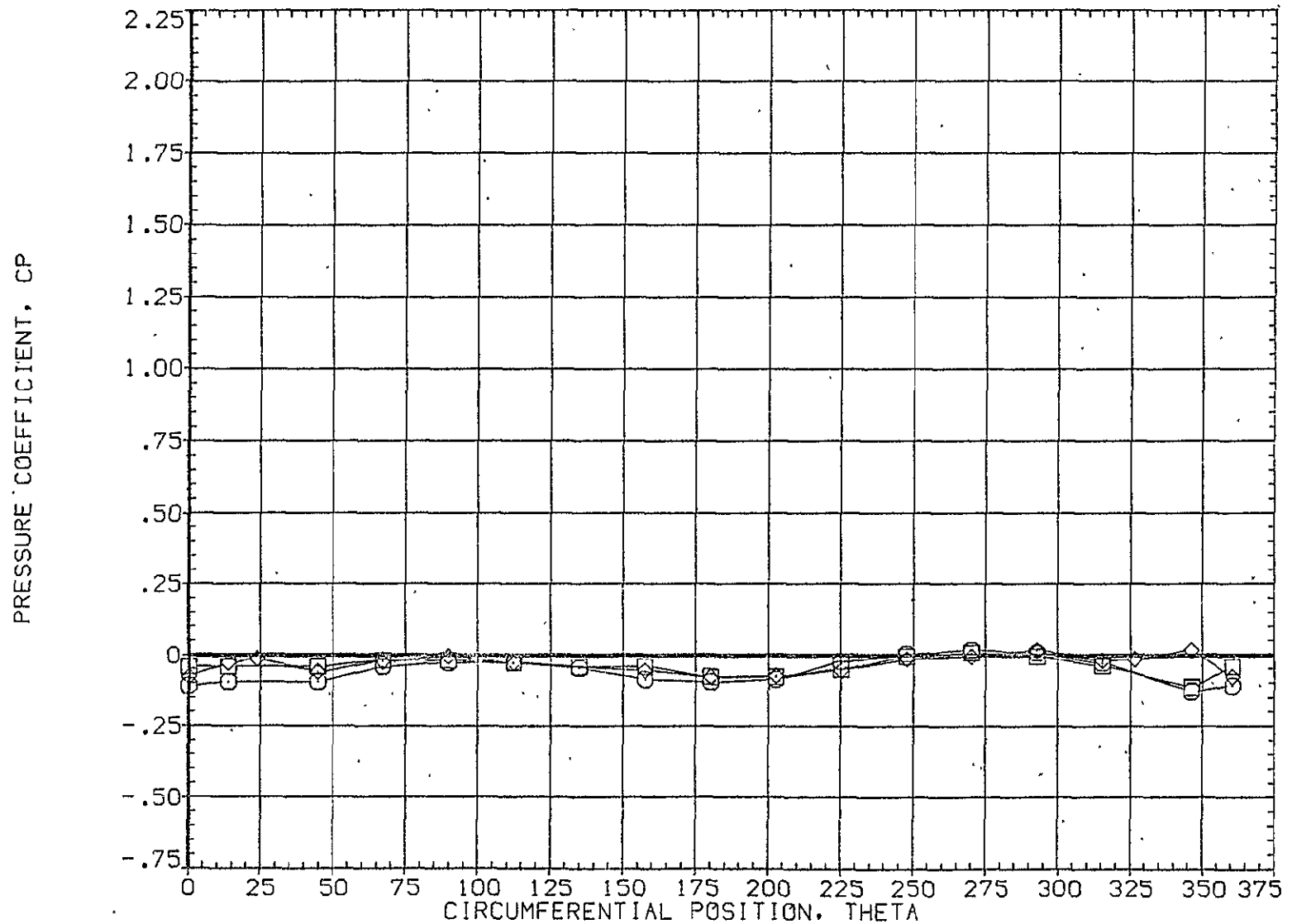


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	-8.380	1.950
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	270.000

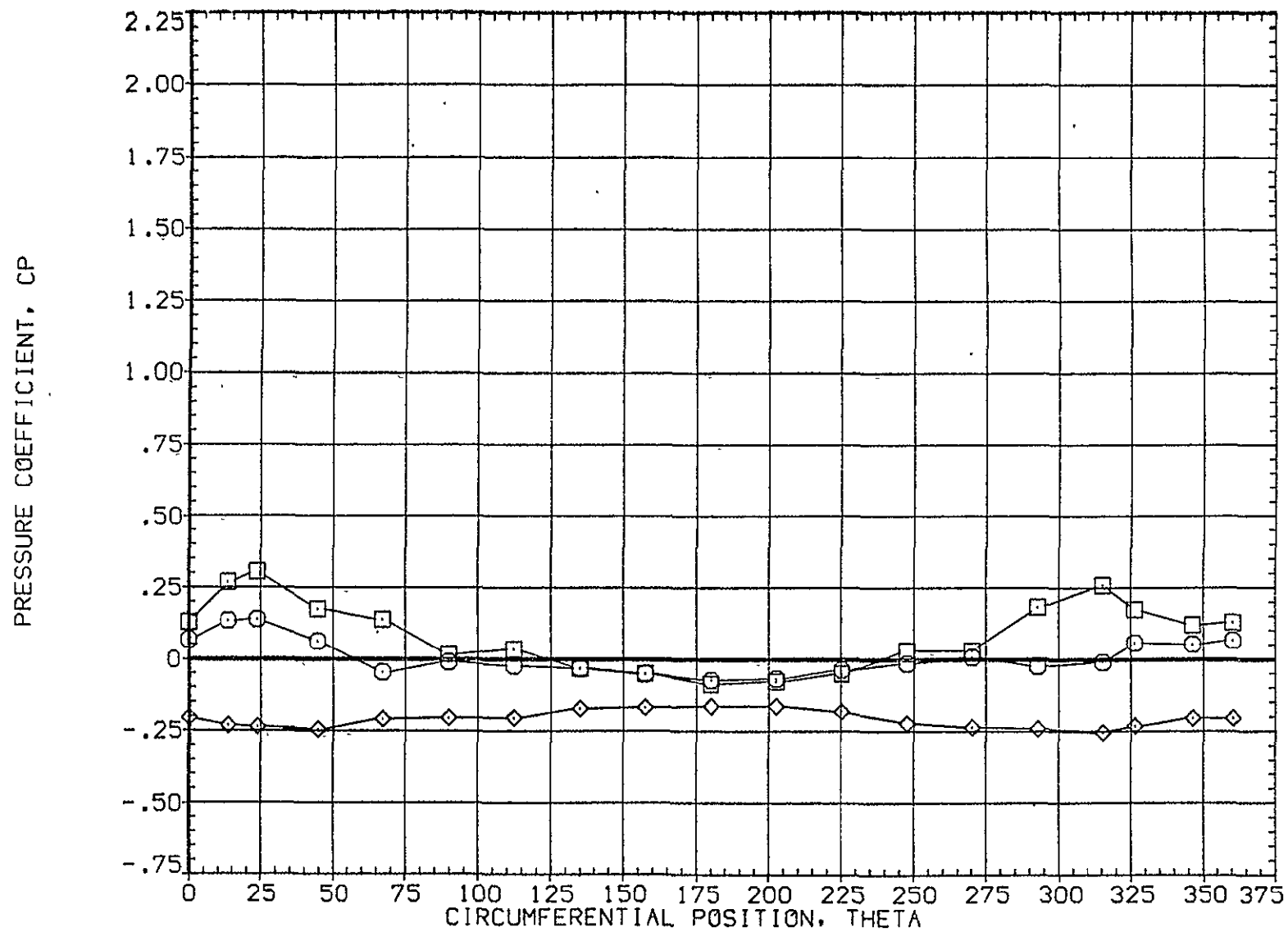


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A052)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-4.350	1.960	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	270.000
◇	.162						

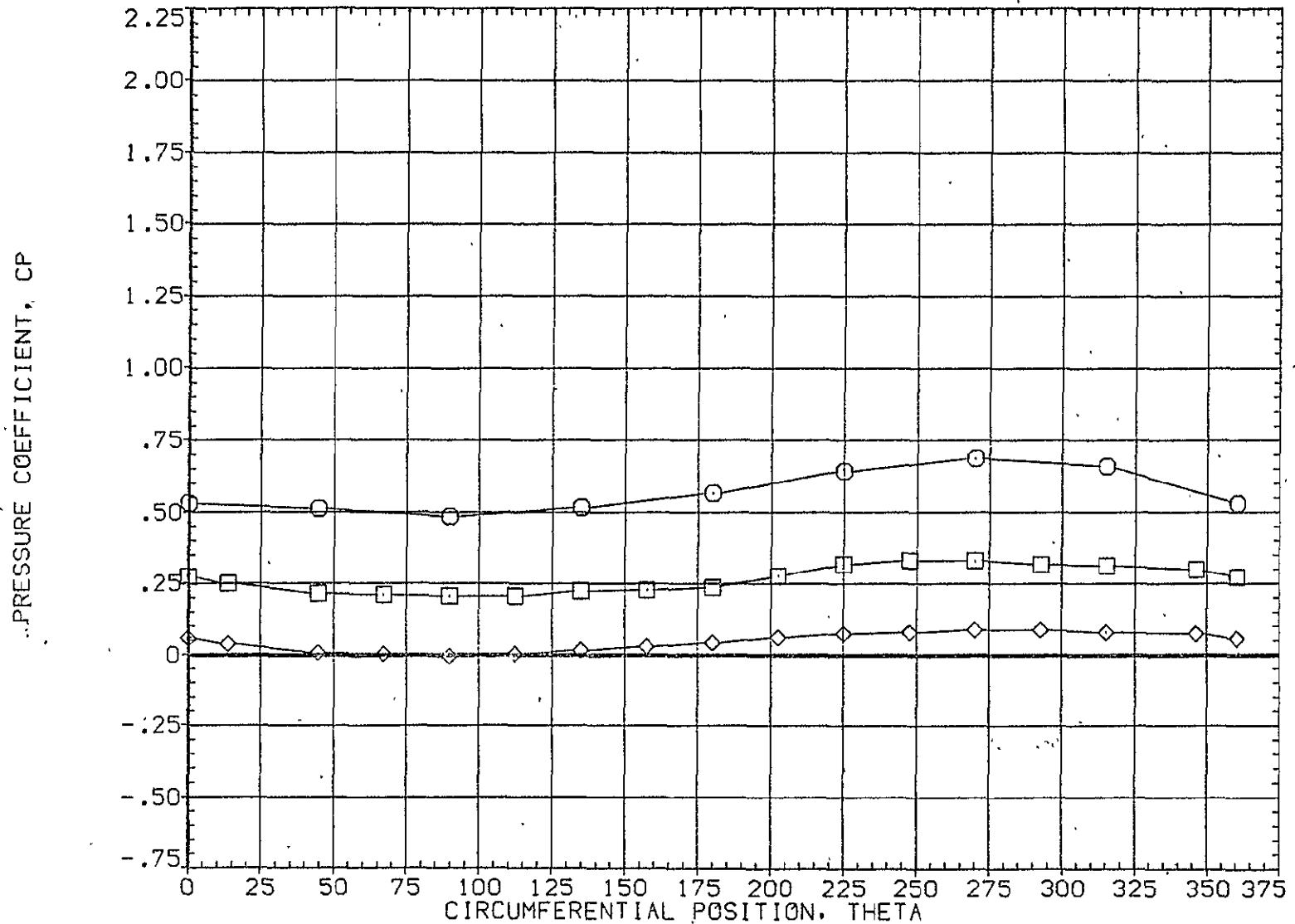


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.216	-4.350	1.960	.000		.000	
□	.322			1.000			270.000
◇	.518						

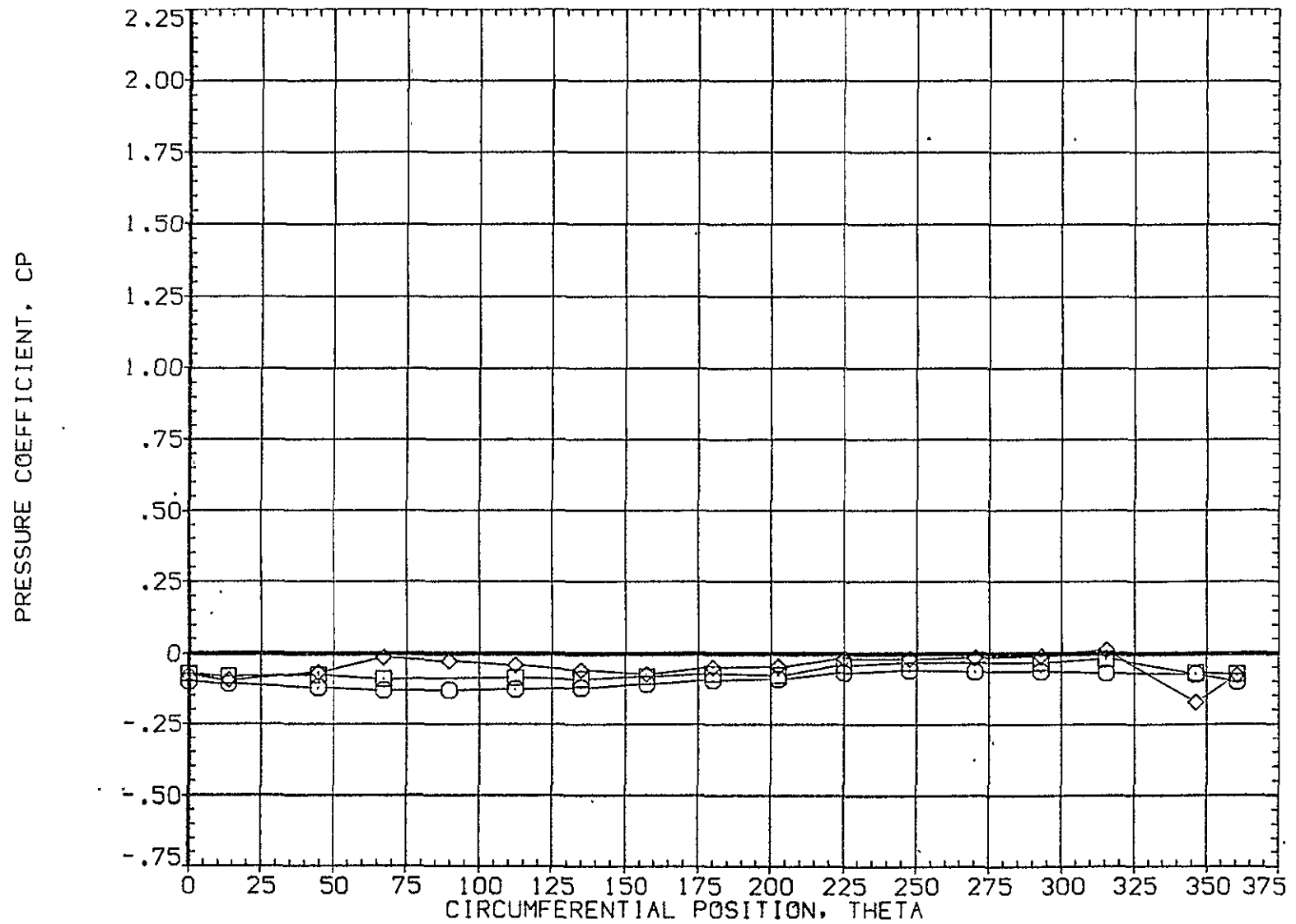


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A052)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	~4.350	1.960	BETA	.000	OFFSET	.000
□	.735			MOUNT	1.000	PHI	270.000
◇	.860						

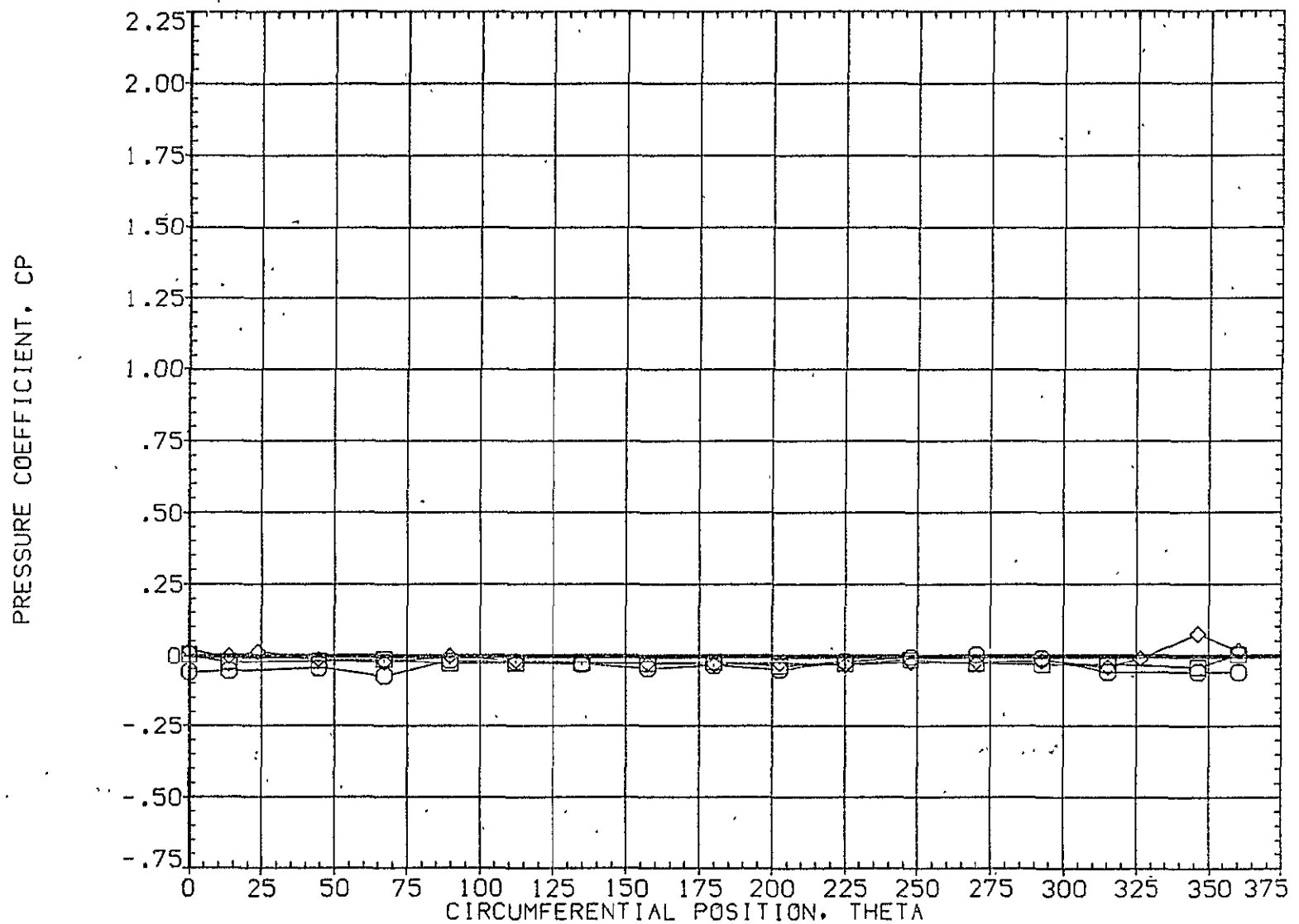


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.892	-4.350	1.960	MOUNT	.000	.000	
□	.923				1.000	270.000	
◇	.954						

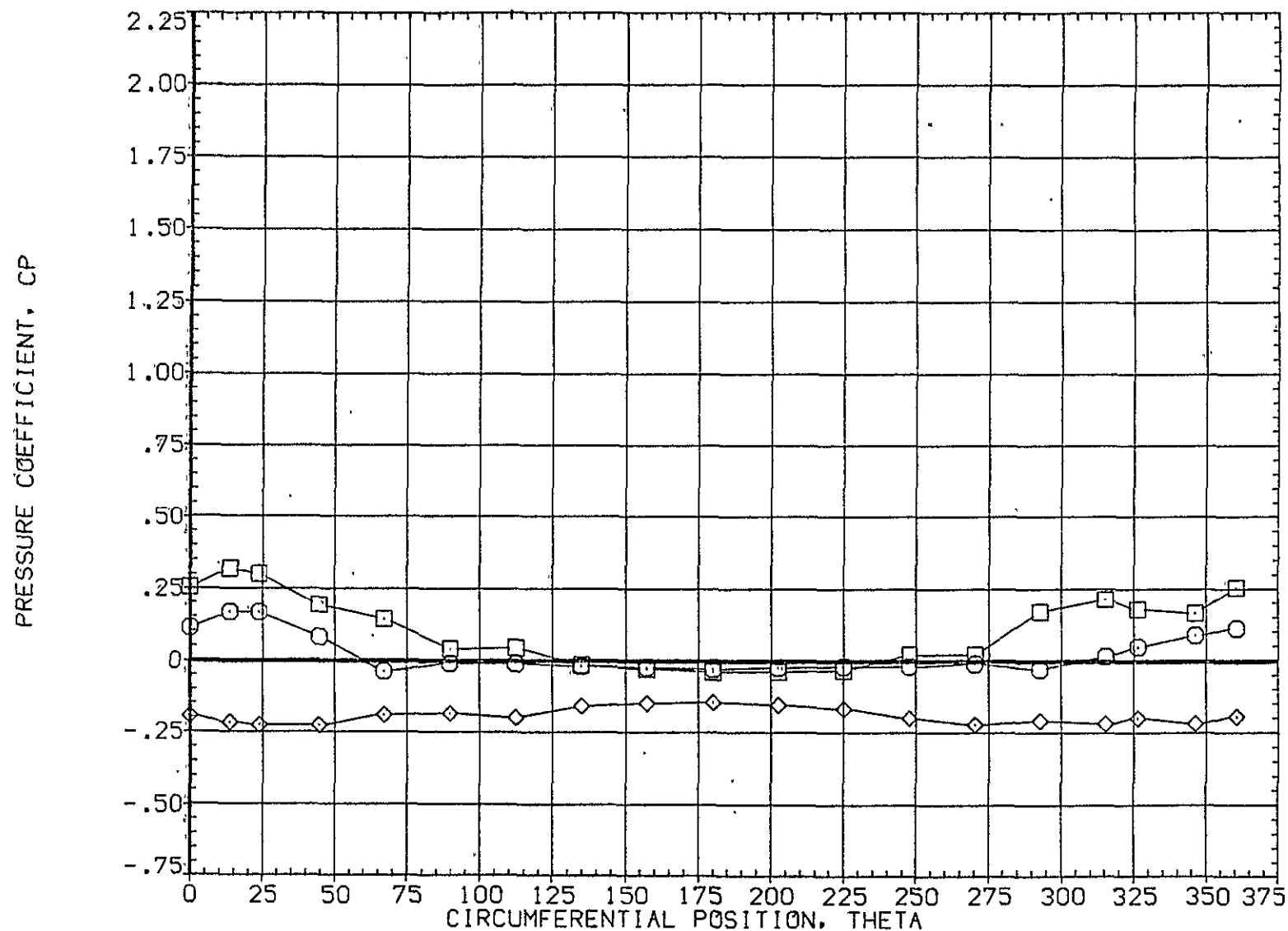


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A053)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	.000
○	.055	-.280	1.960	MOUNT	1.000	PHI
□	.108					270.000
◇	.162					

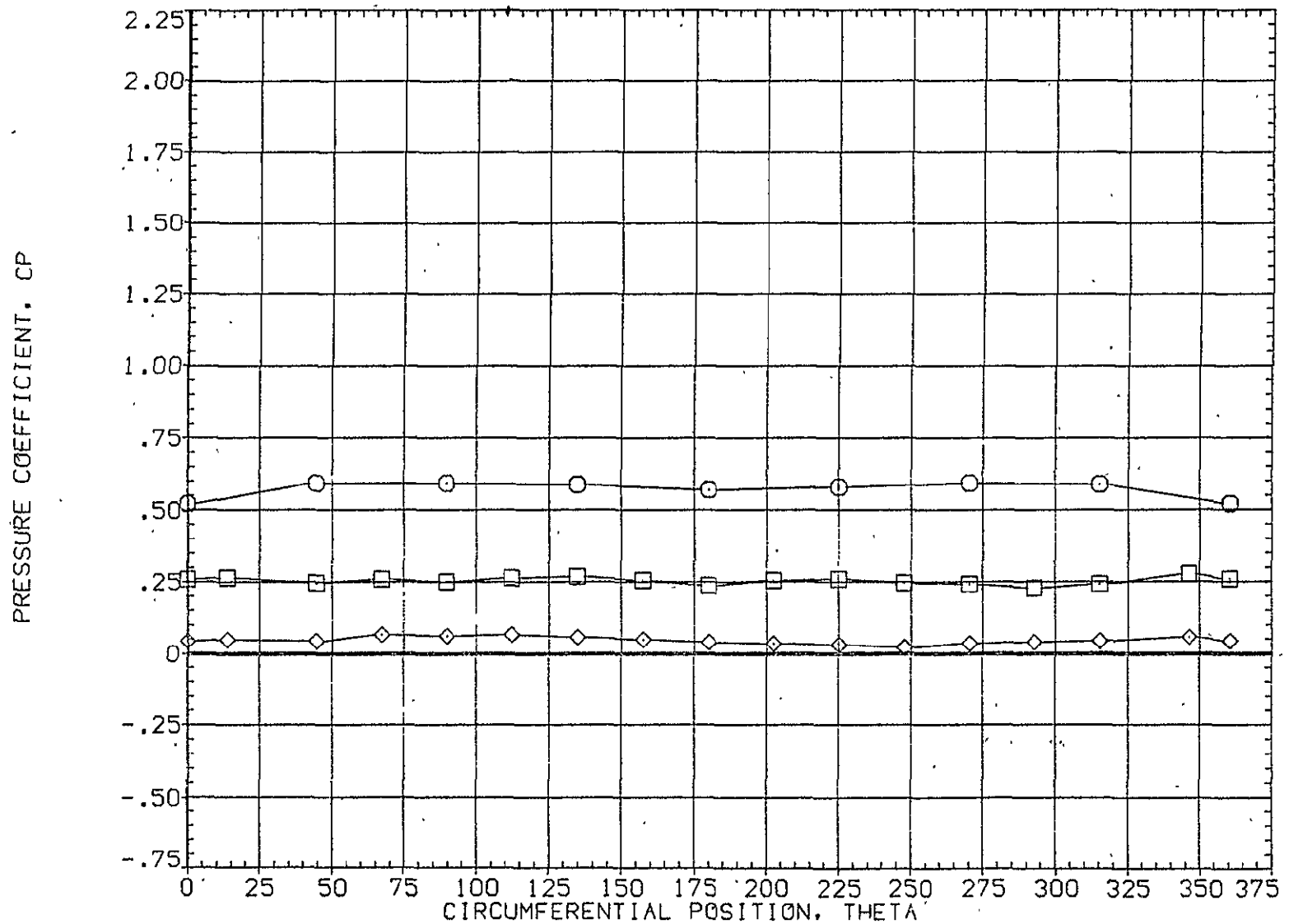


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-.280	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	
ANGLE	PHI	
.000	.000	
1.000	270.000	

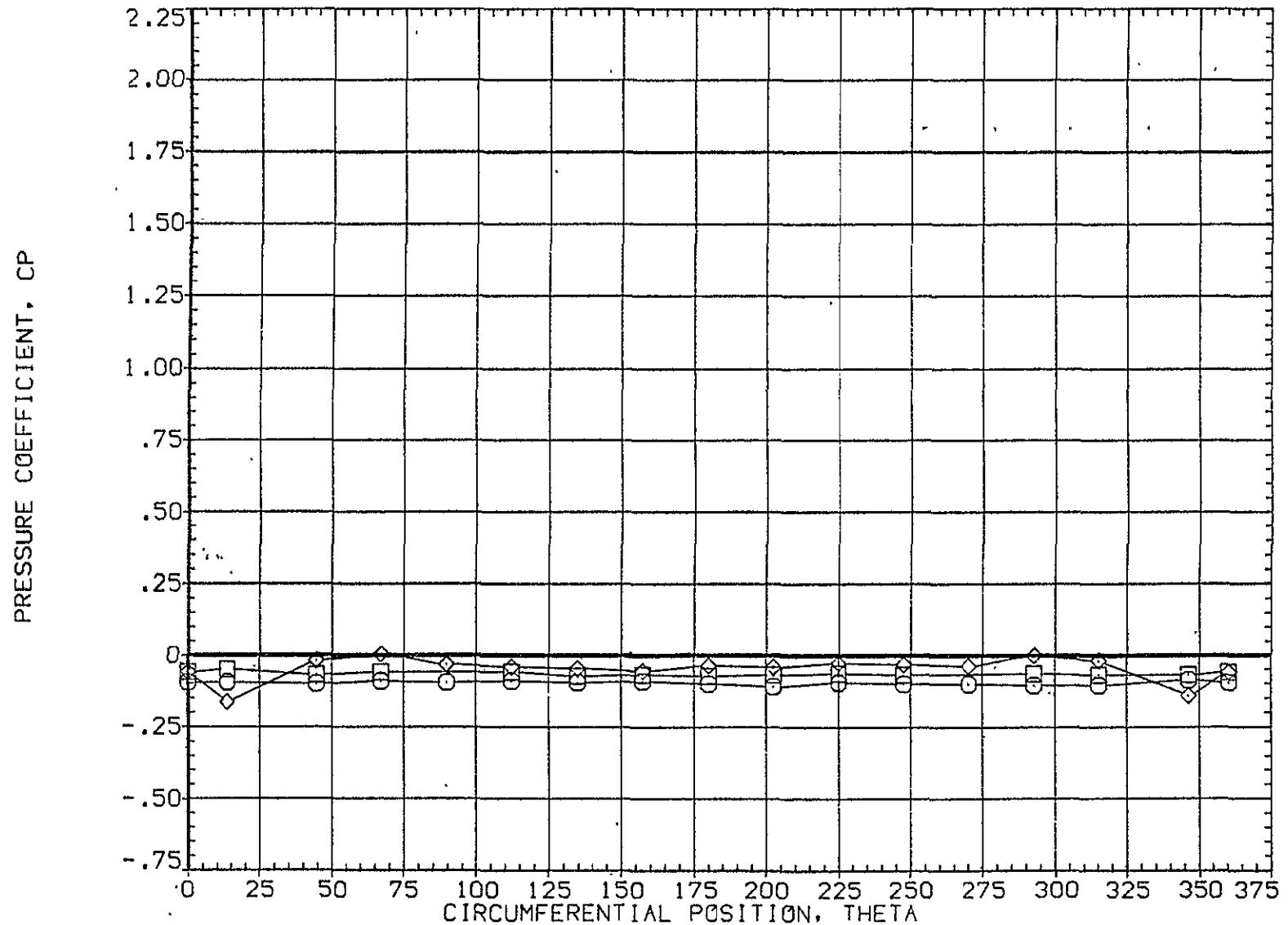


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A053)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-.280	1.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	270.000
◇	.860						

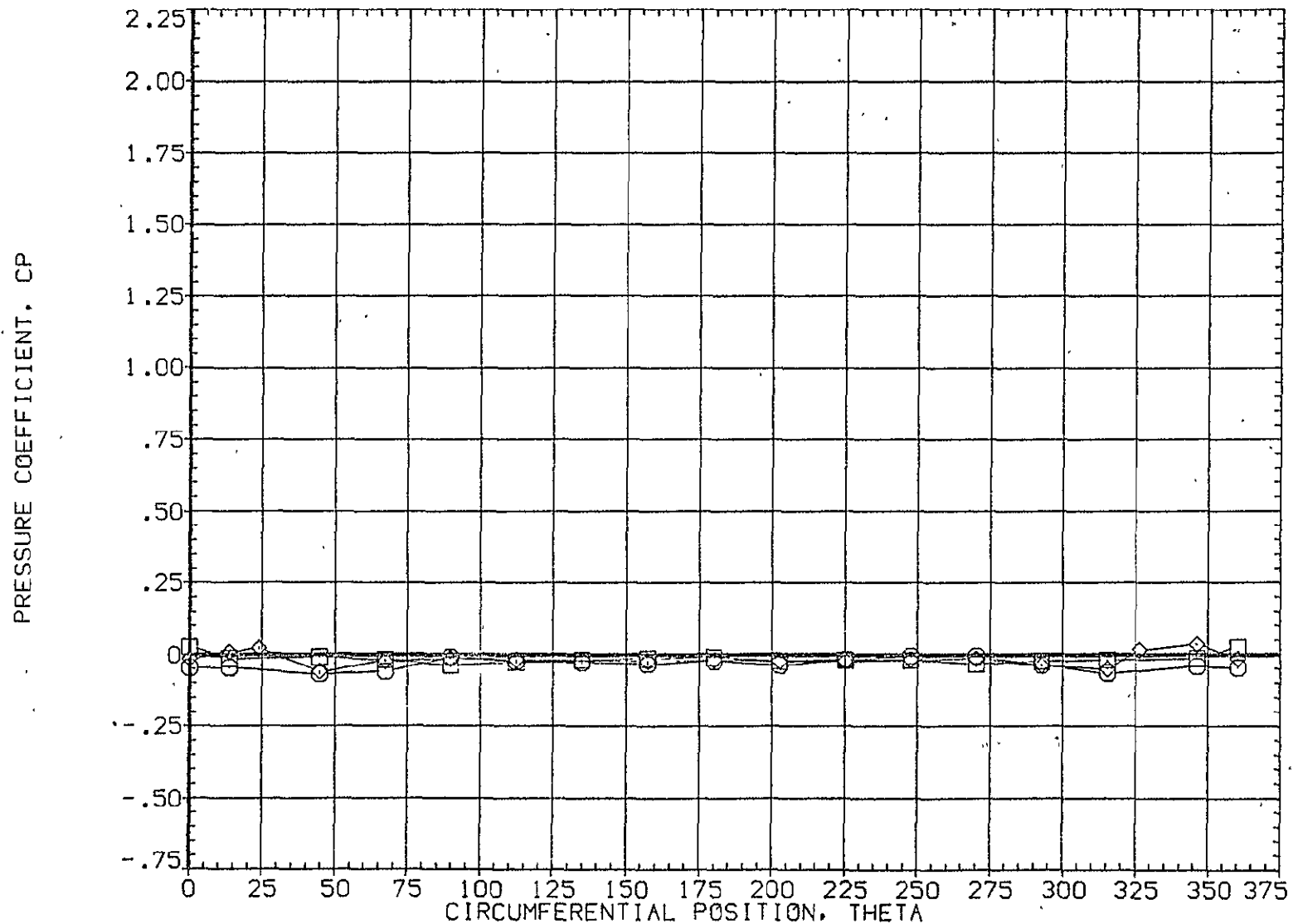


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	-.280	1.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	
1.000	270.000	

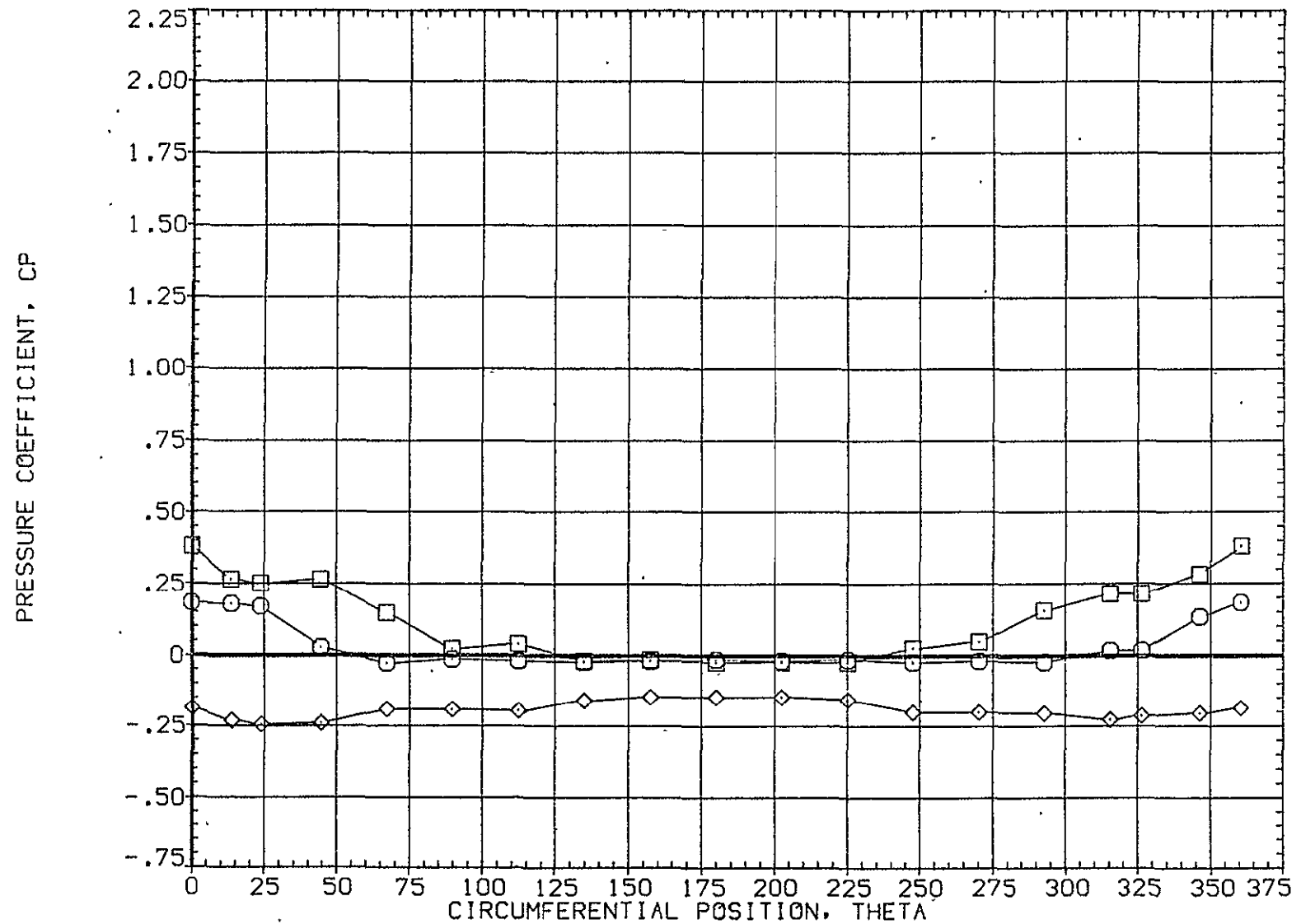


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(PIA054)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	3.770	1.960	MOUNT	.000	PHI	270.000
□	.108						
◇	.162						

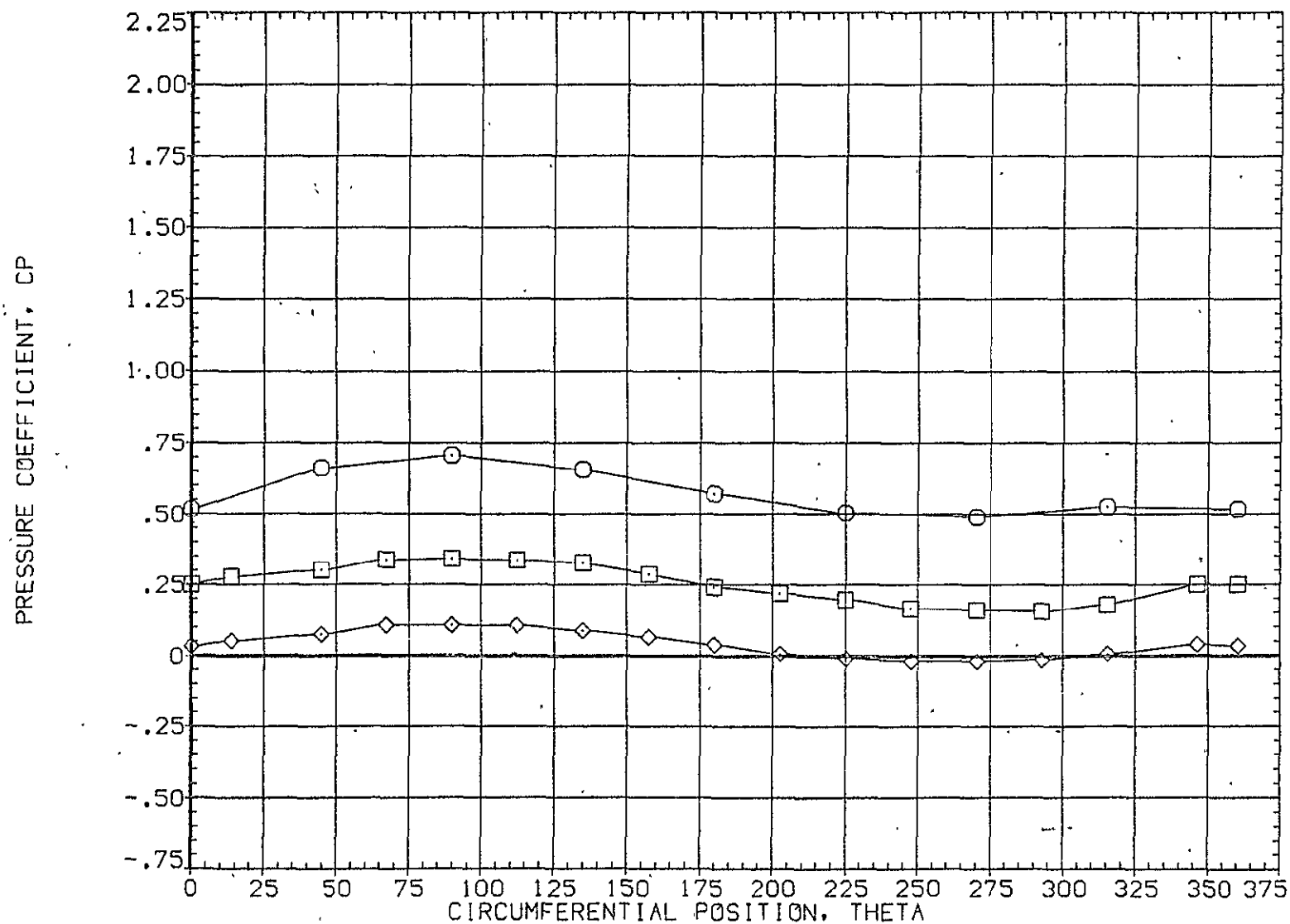


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	3.770	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	
1.000	270.000	

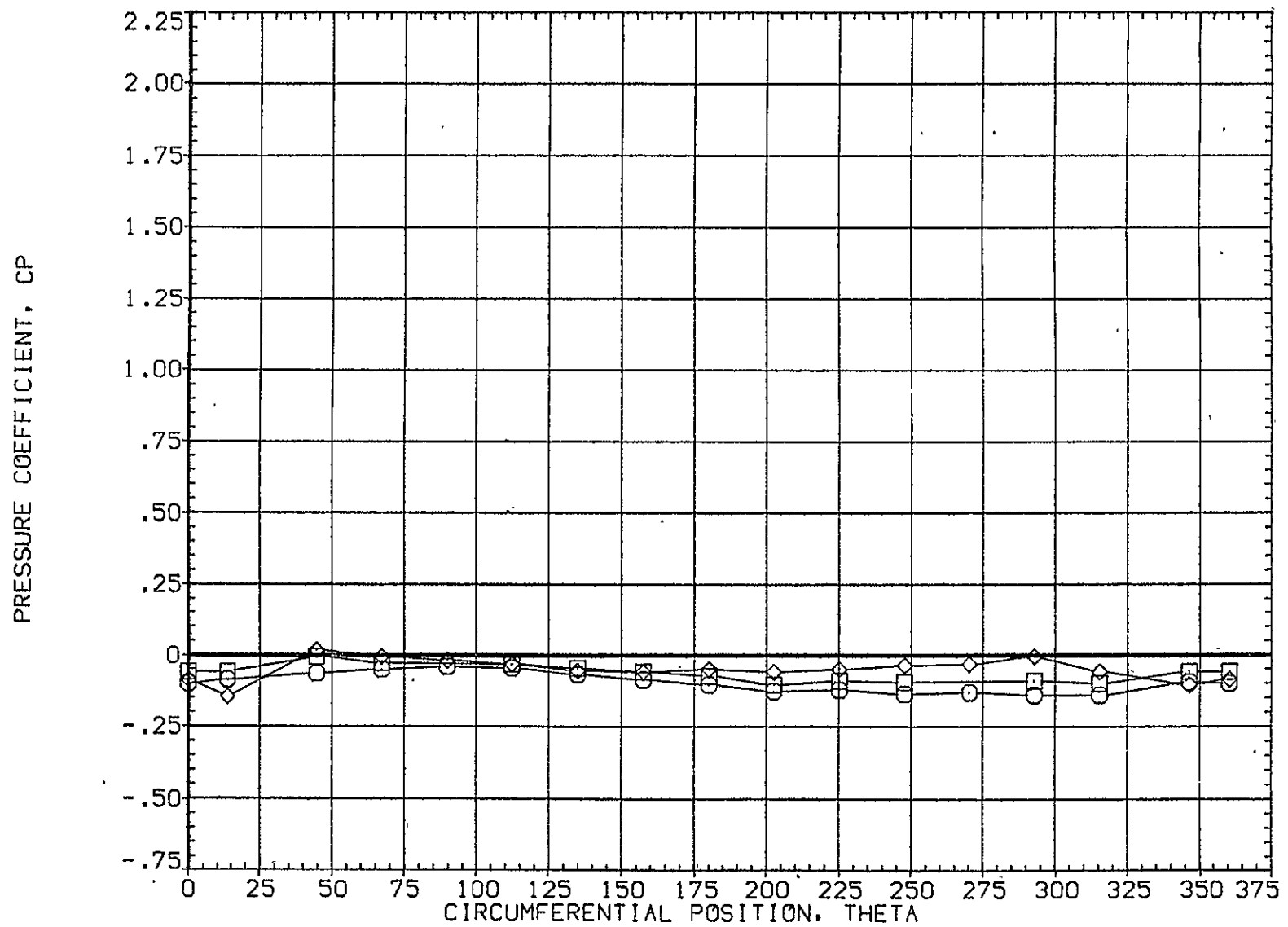


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A054)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	3.770	1.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	270.000
◇	.860						

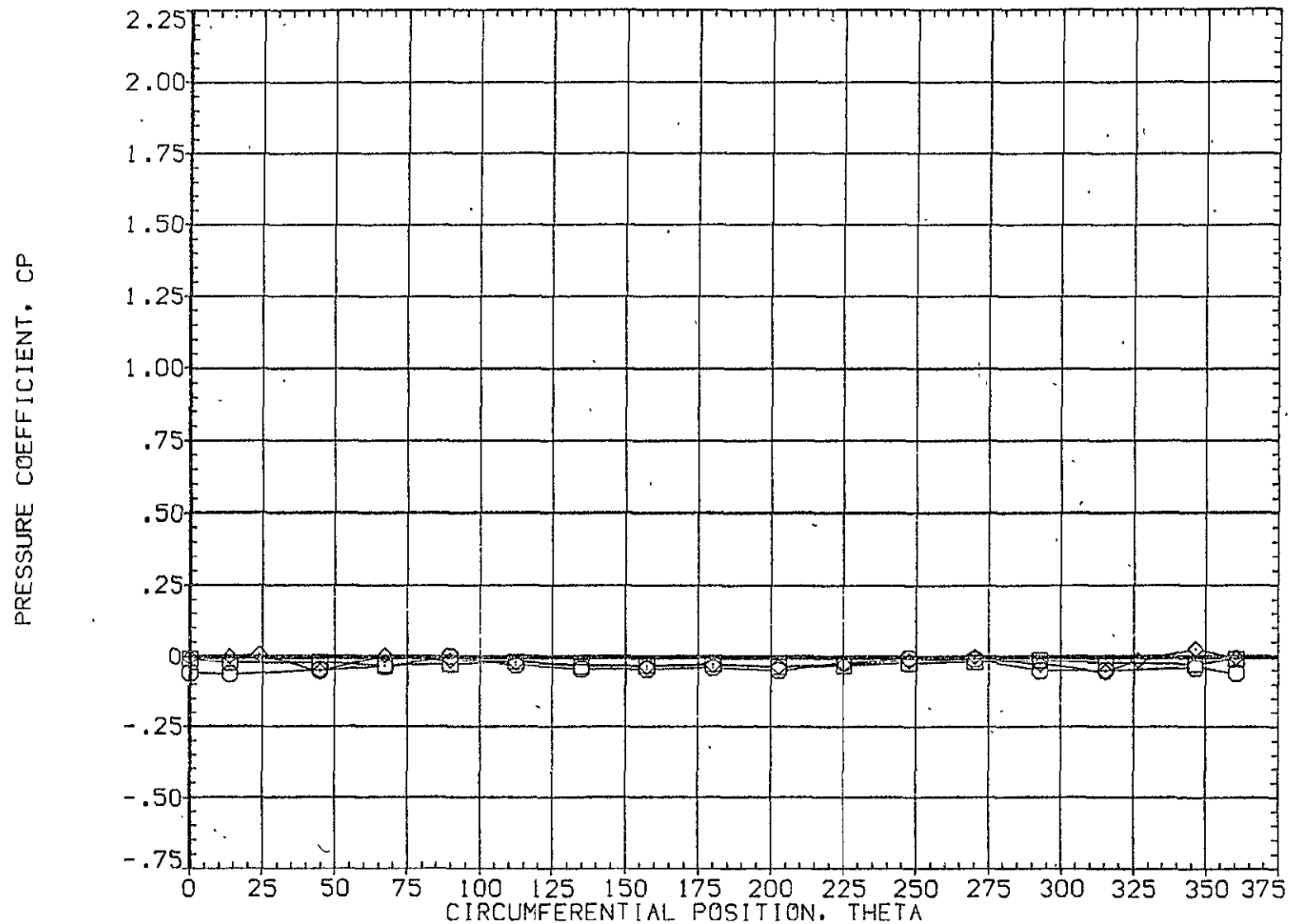


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	3.770	1.960	MOUNT	.000	PHI	.000
□	.923				1.000		270.000
◇	.954						

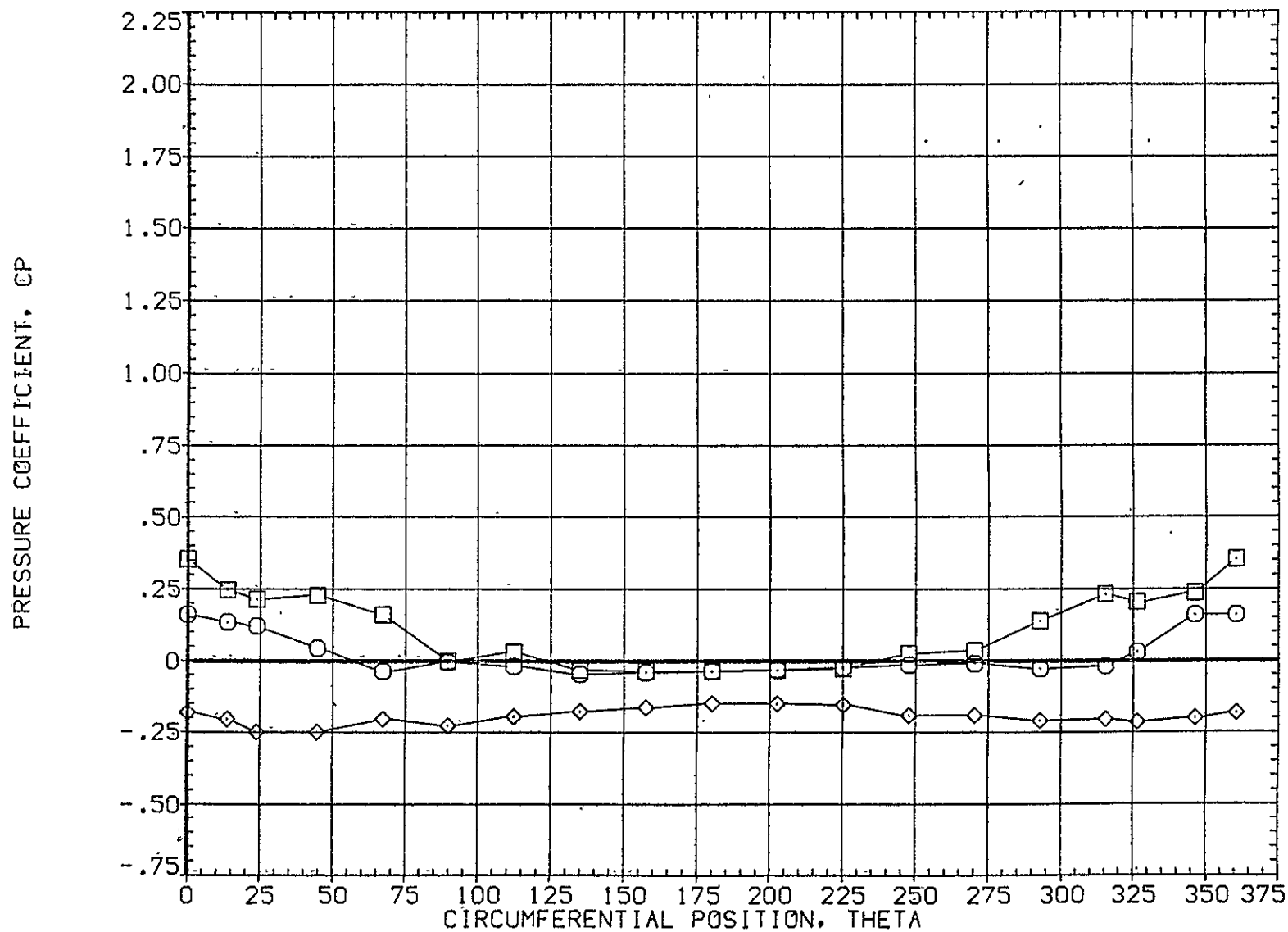


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A055)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	7.860	1.960	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	270.000
◇	.162						

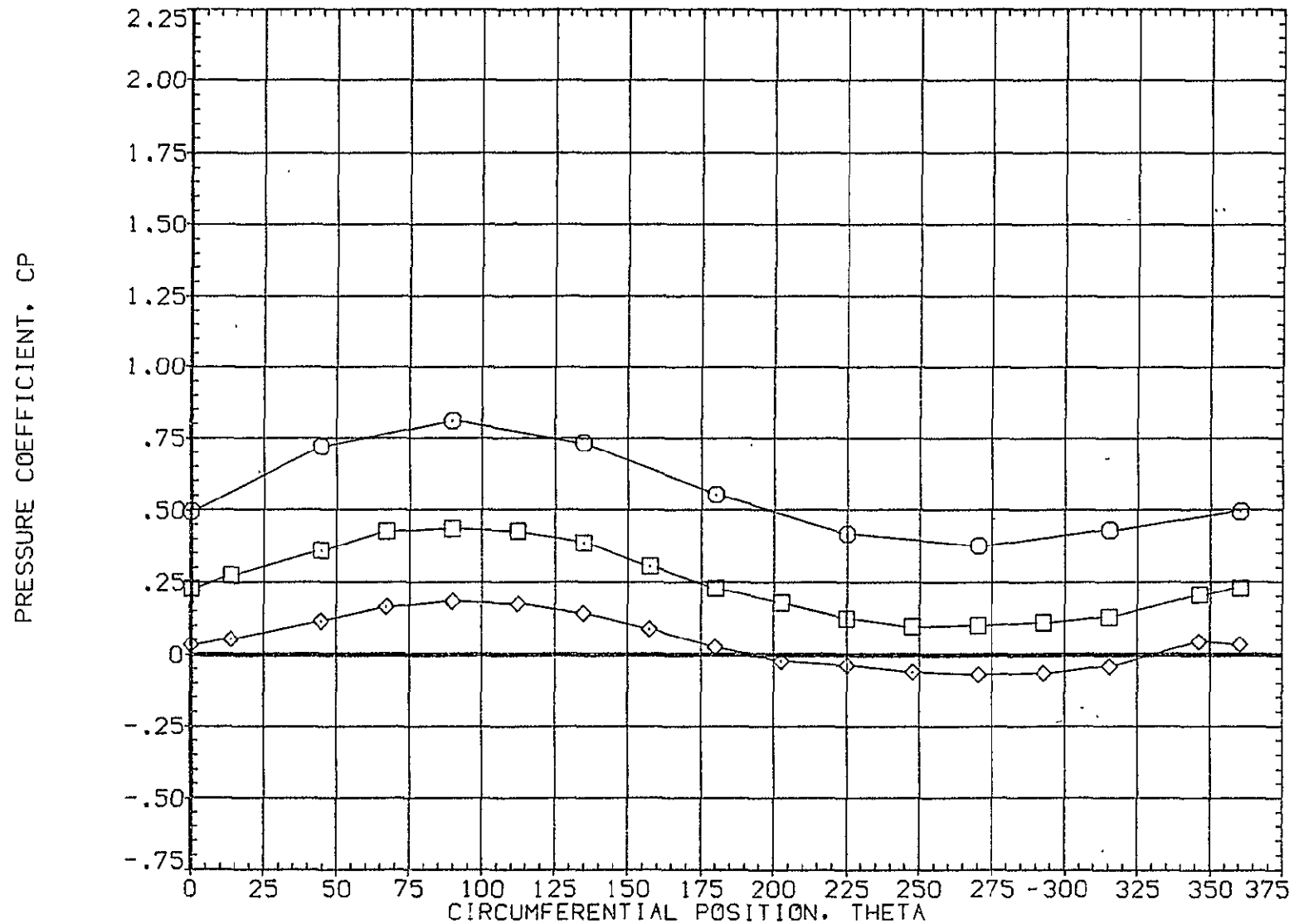


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	Y000
○	.216	7.860	1.960			
□	.322					
◇	.518					
				MOUNT	PHI	270.000

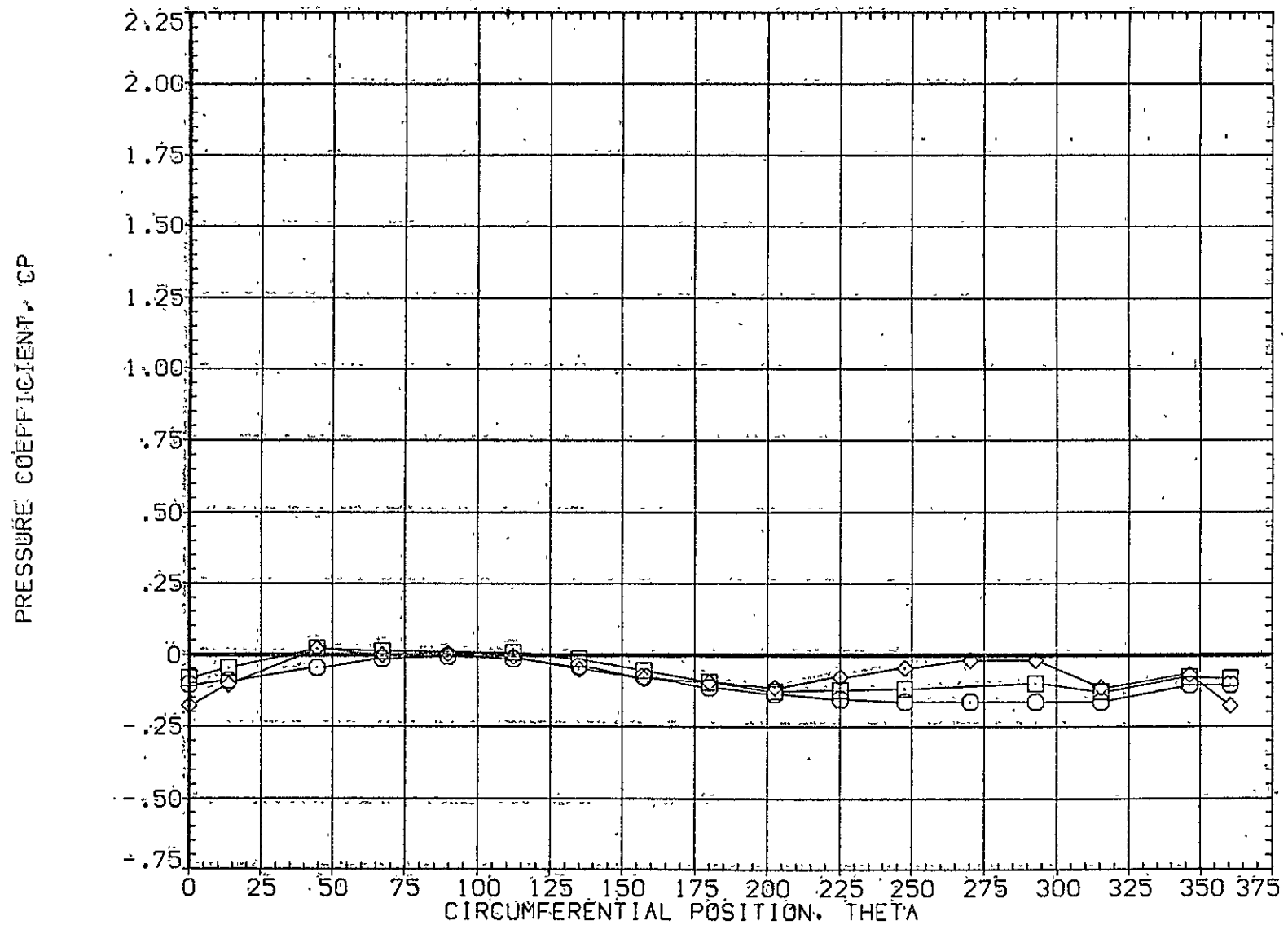


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A055)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.610	7.860	1.960	.000		.000
□	.735			1.000	PHI	270.000
◇	.860					

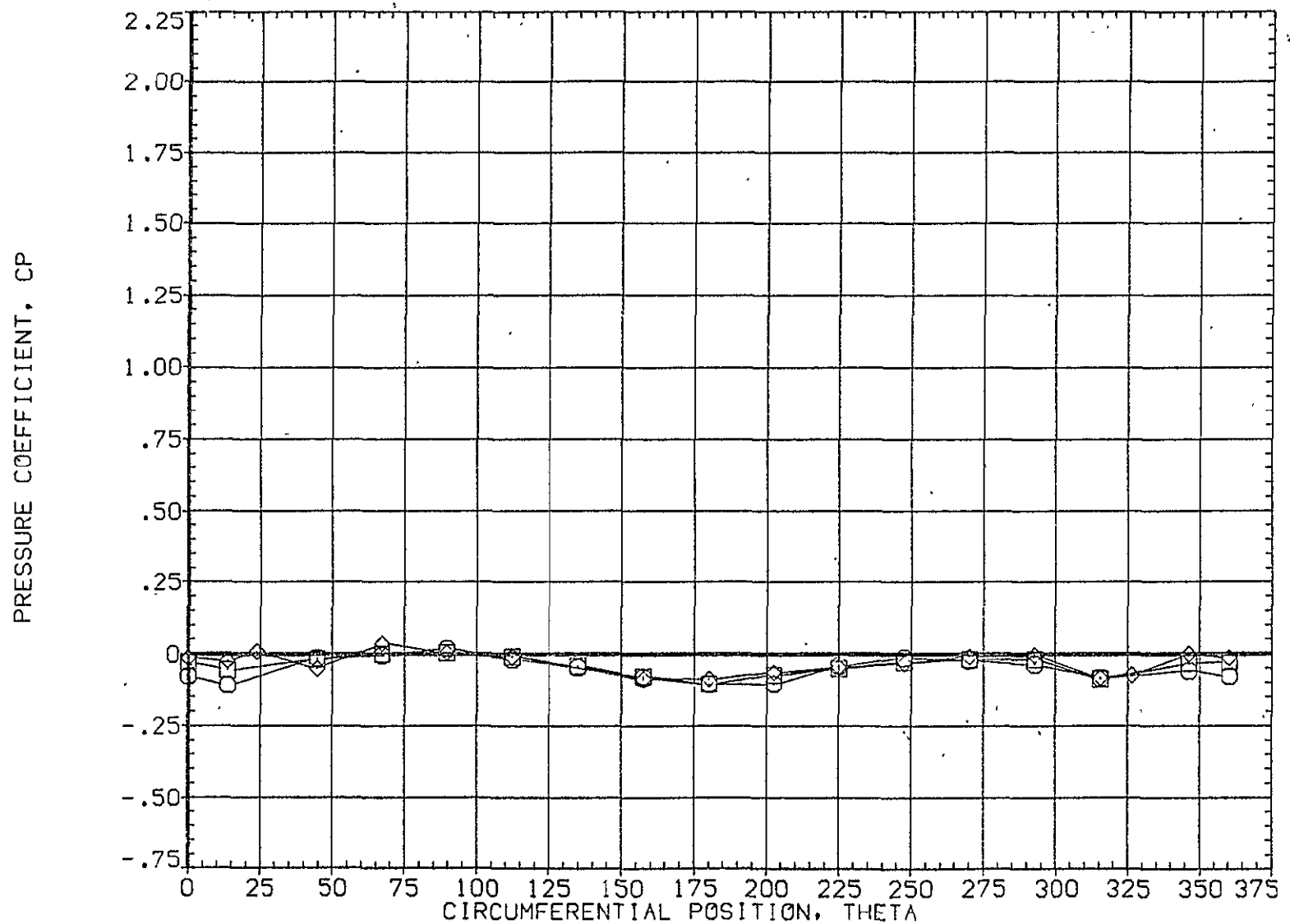


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB'

ALPHA

MACH

BETA'

PARAMETRIC VALUES

.000 OFFSET

.000

MOUNT

1.000

PHI

270.000

○
□
◇

.892
.923
.954

PRESSURE COEFFICIENT, CP

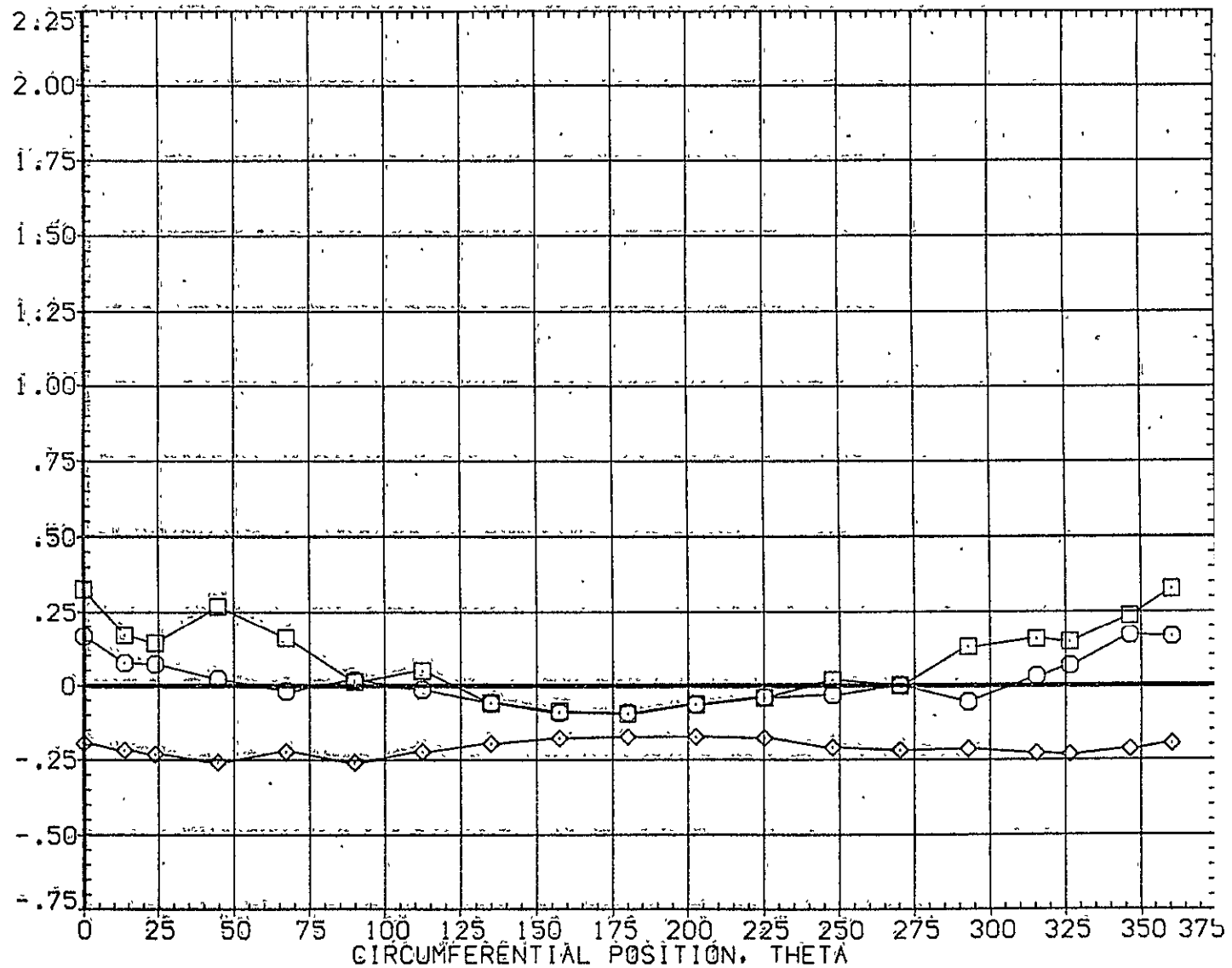


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A056)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
				MOUNT	1.000	PHI	270.000

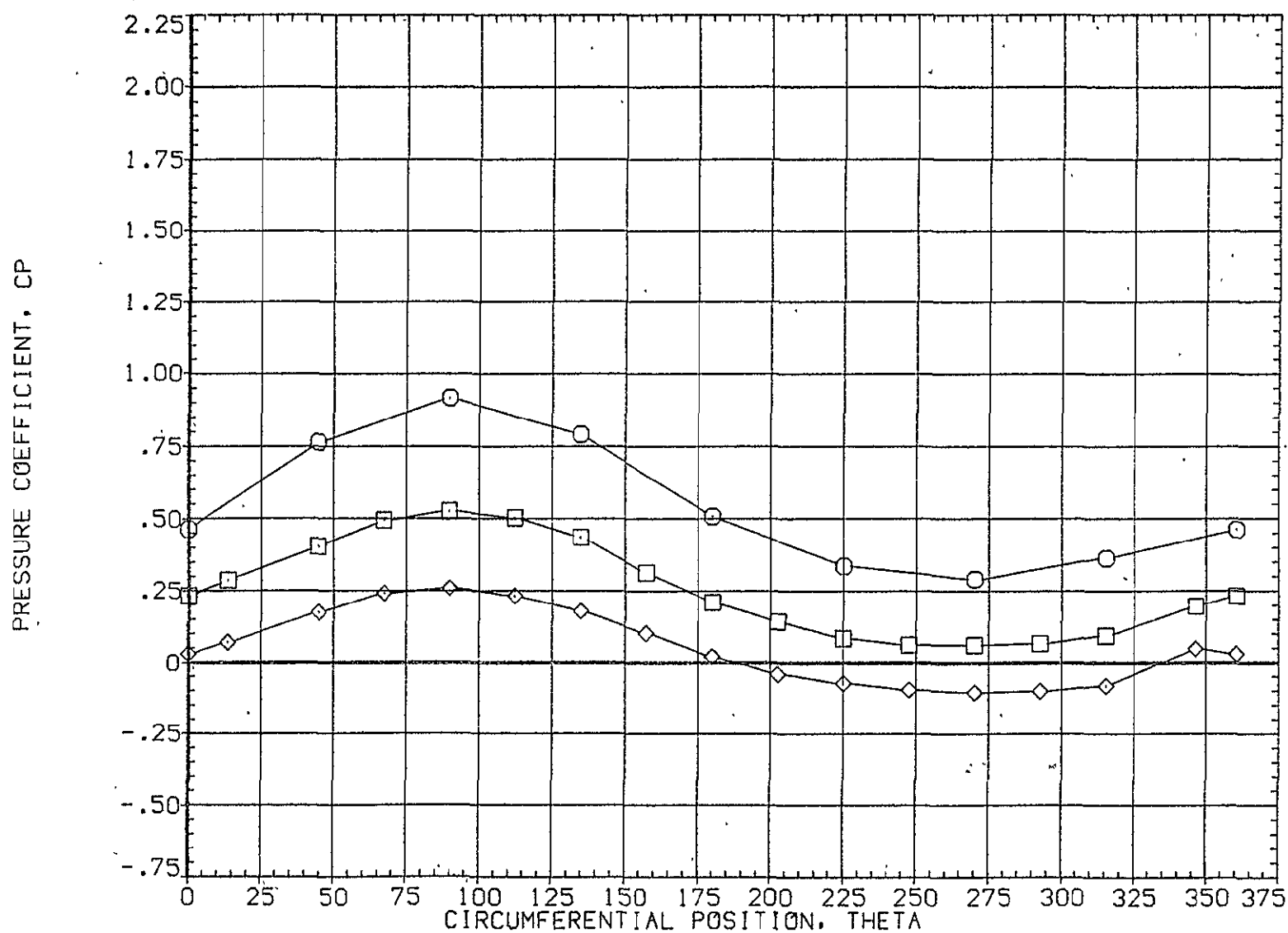


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.216	12.570	1.970	MOUNT	.000	PHI	270.000
□	.322				1.000		
◇	.518						

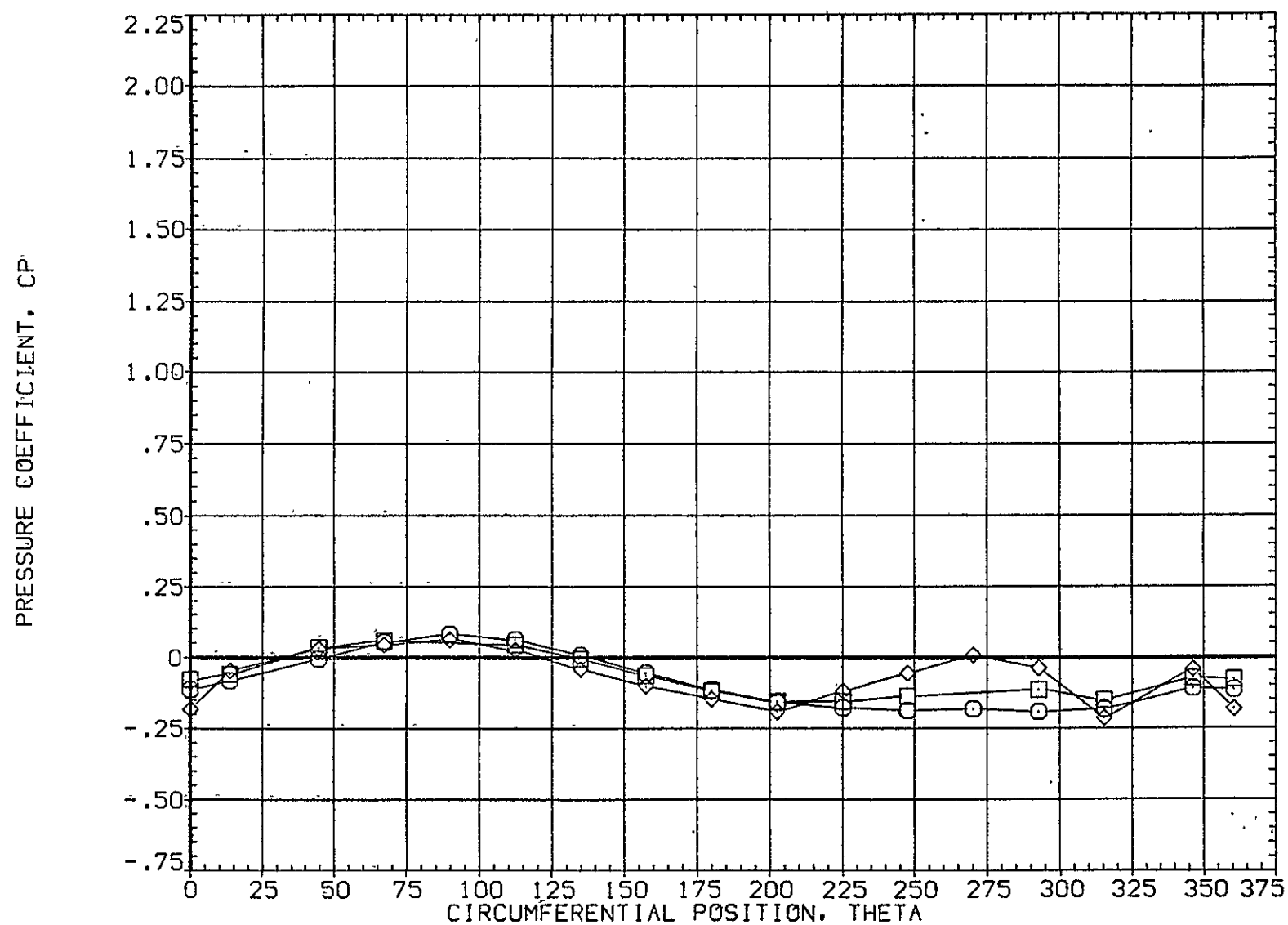


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A056)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	12.570	1.970	.000	OFFSET 20.000
□	.735			1.000	PHI 270.000
◇	.860				

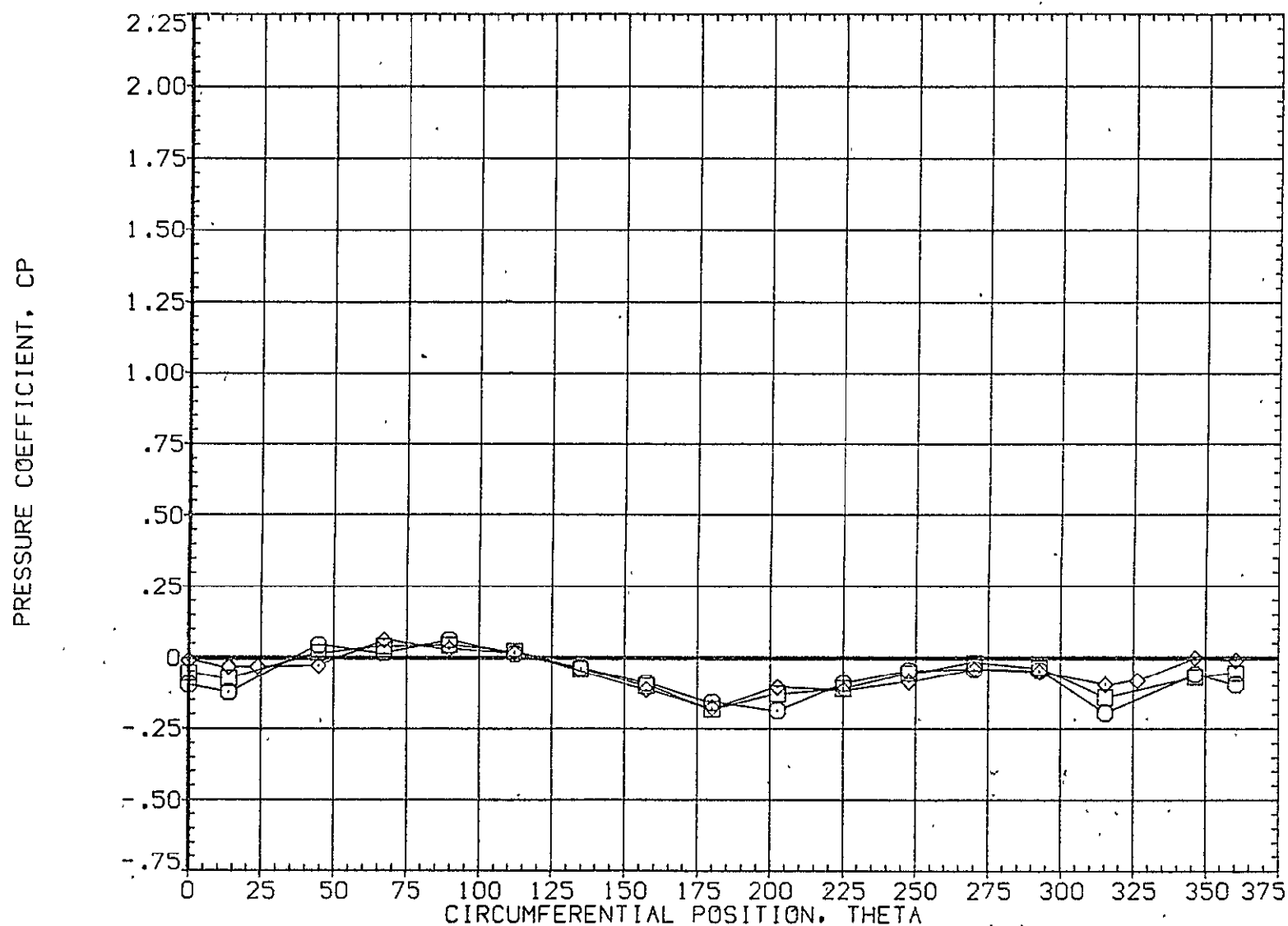


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.892	12.570	1.970	MOUNT	.000 OFFSET 20.000
□	.923				1.000 PHI 270.000
◇	.954				

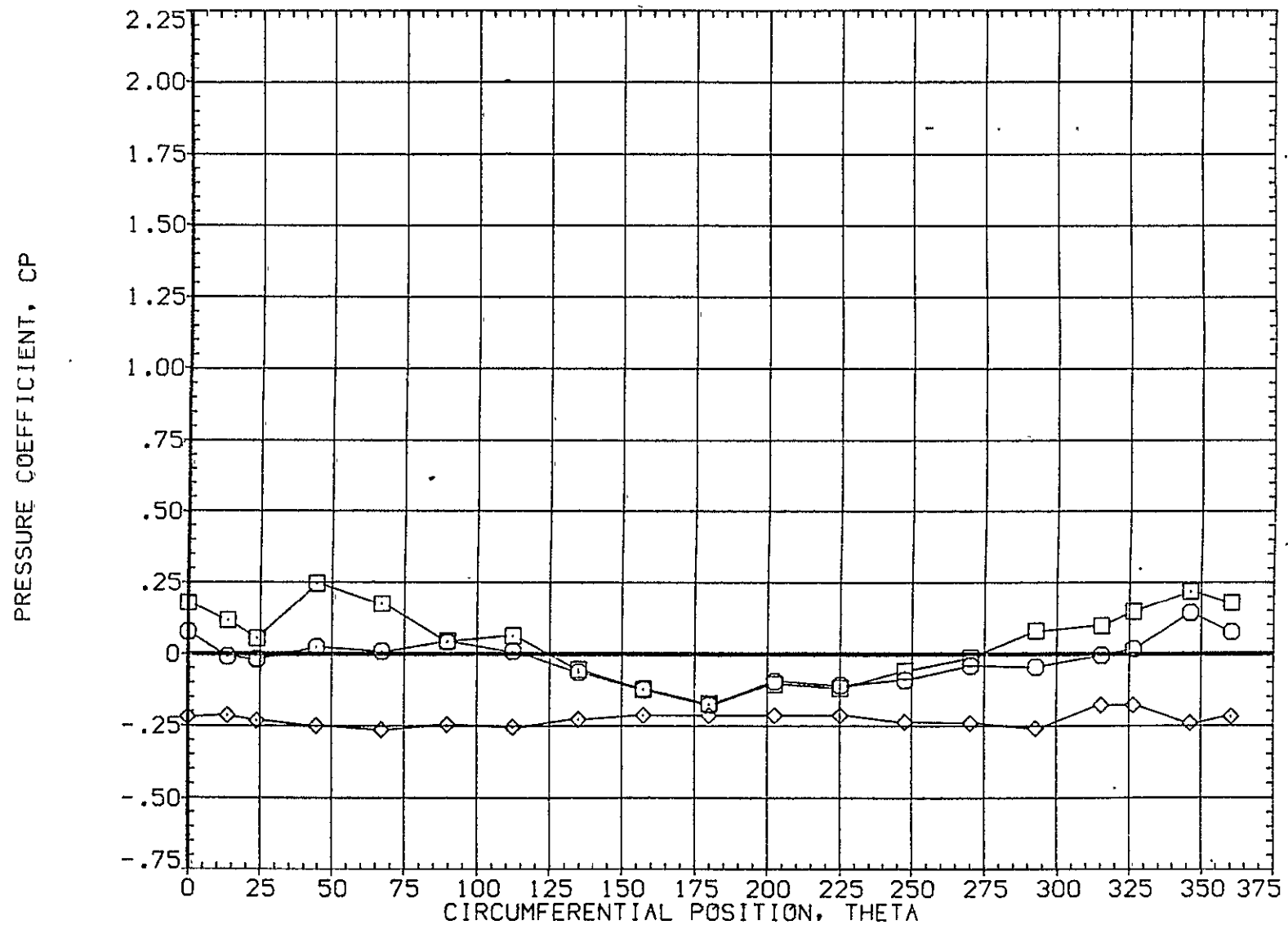


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A057)

SYMBOL	X/LB	ALPHA	MACH
○	.055	16.640	1.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

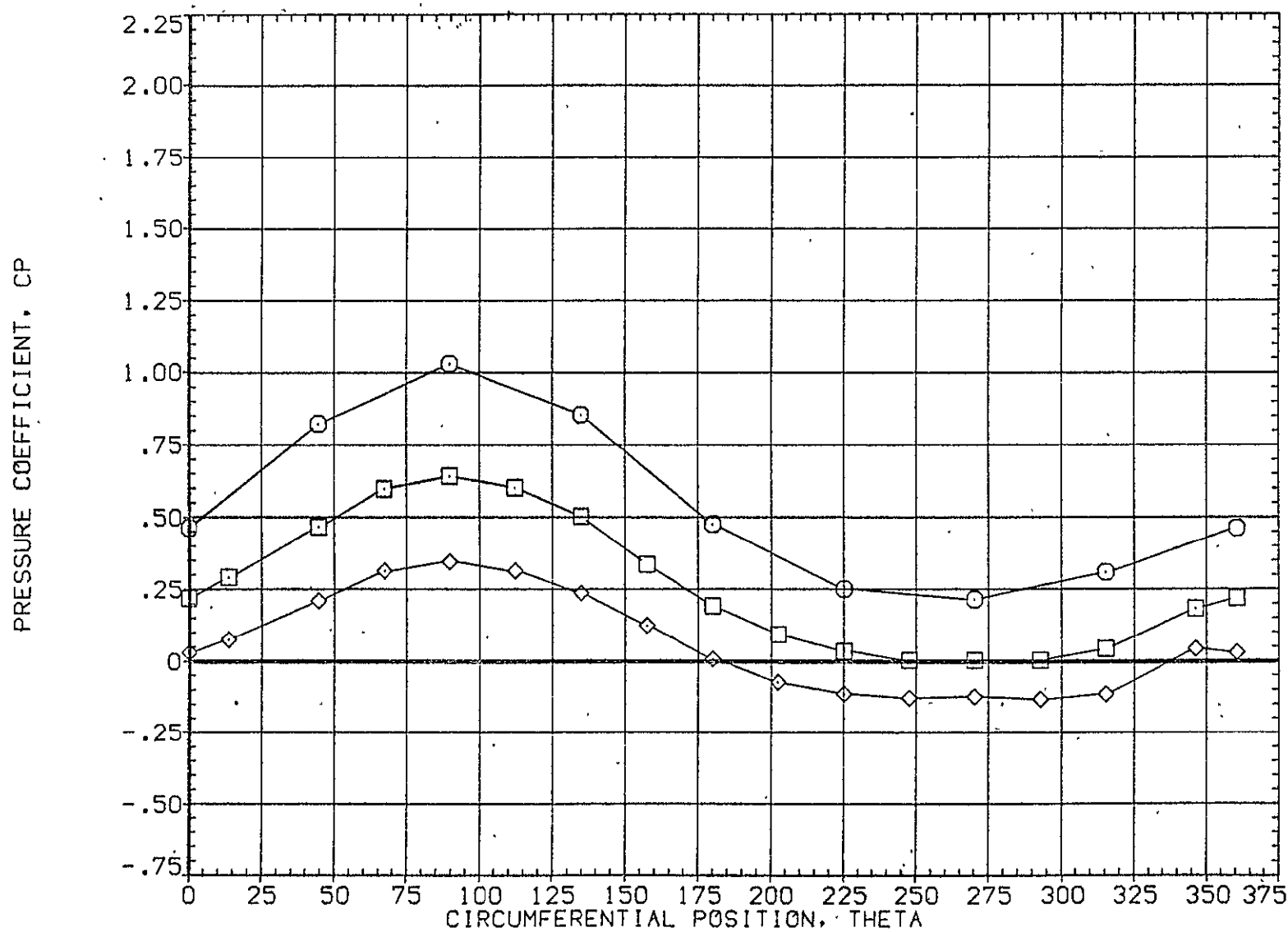


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	16.640	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

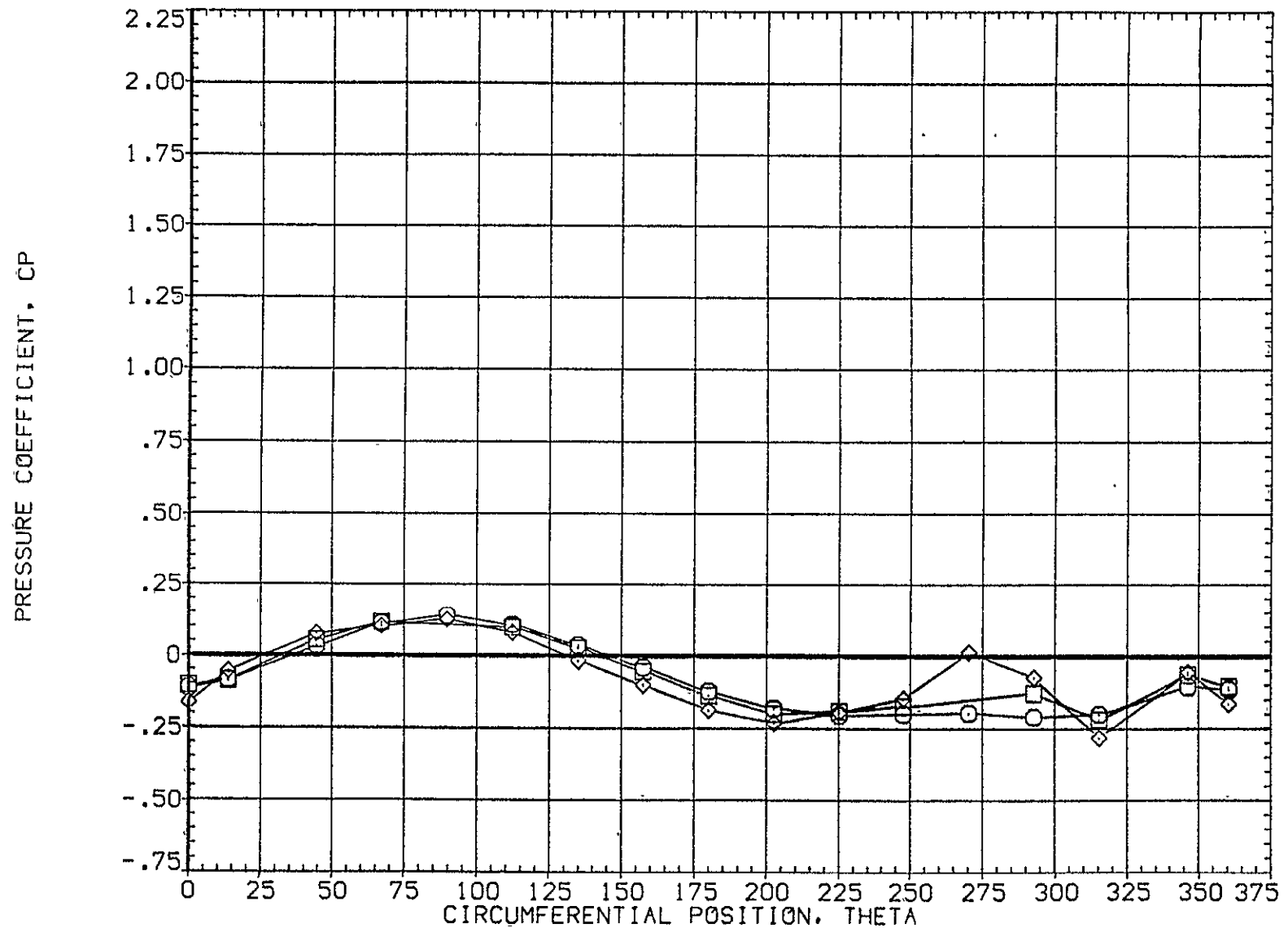


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A057)

SYMBOL	X/LB	ALPHA	MACH
○	.610	16.640	1.960
□	.735		
◇	.960		

	PARAMETRIC VALUES		
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

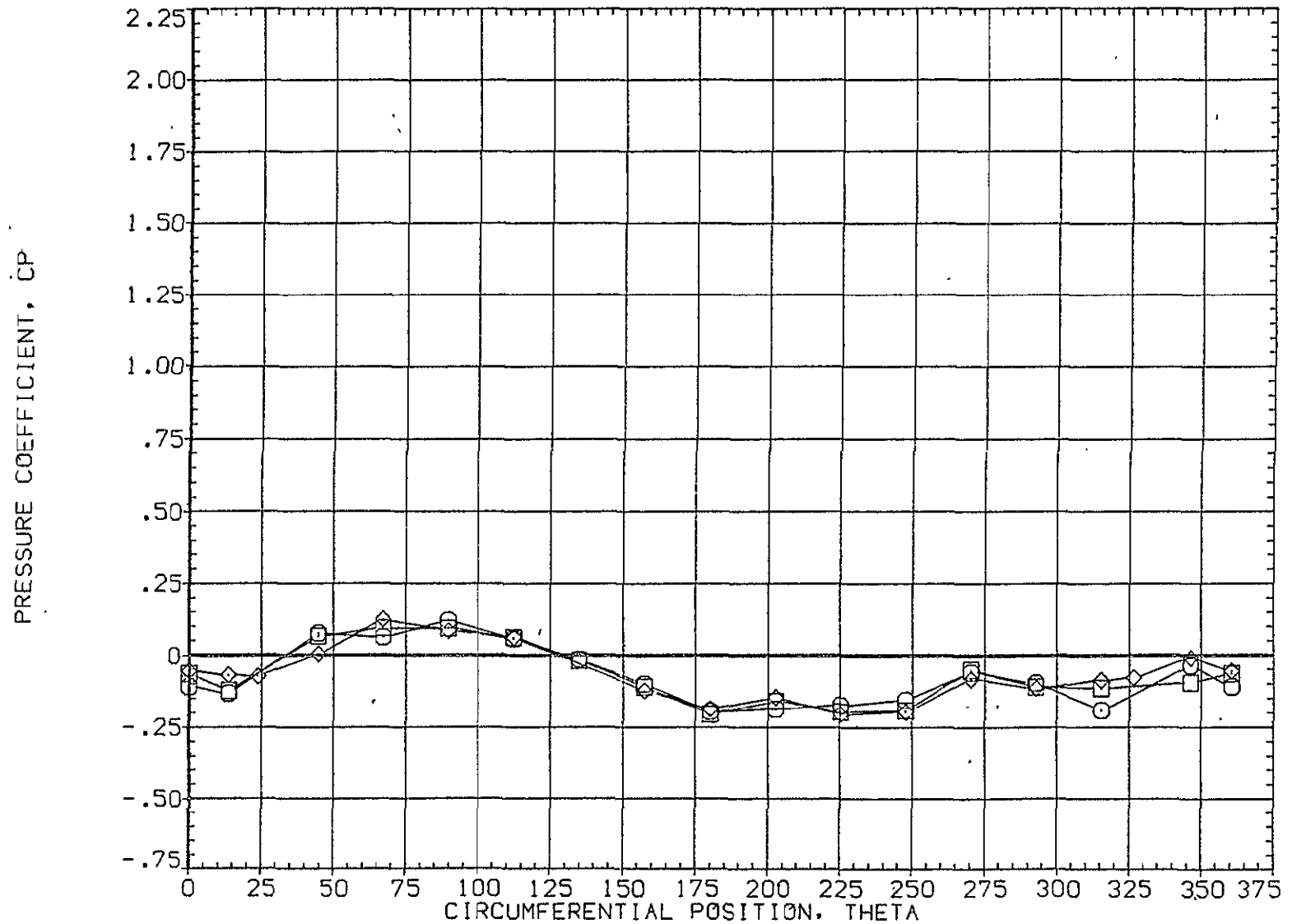


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	16.640	1.960	MOUNT	1.000	PHI
□	.923					20,000
◇	.954					270,000

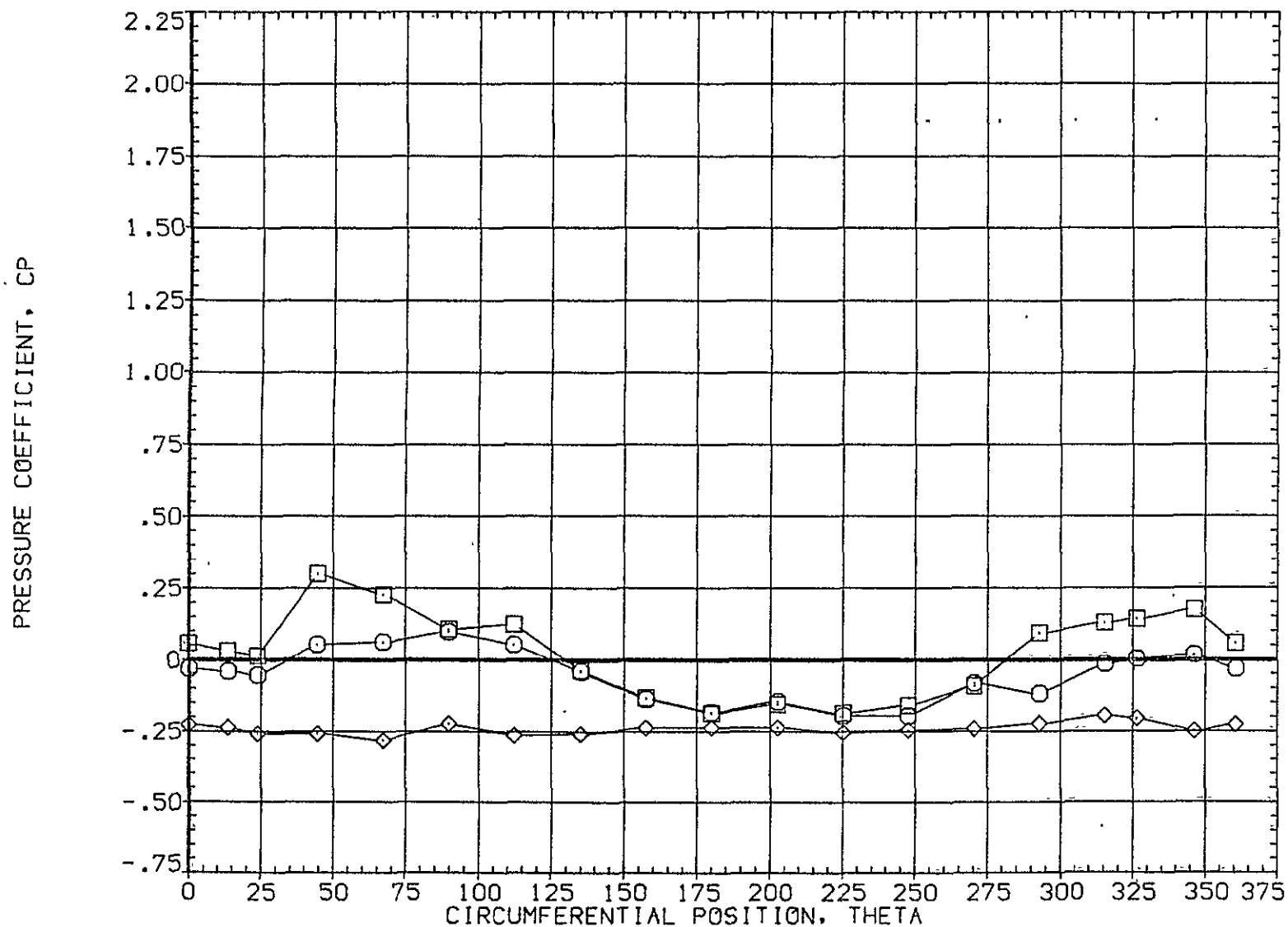


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A058)

SYMBOL	X/LB	ALPHA	MACH
○	.055	20.740	1.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

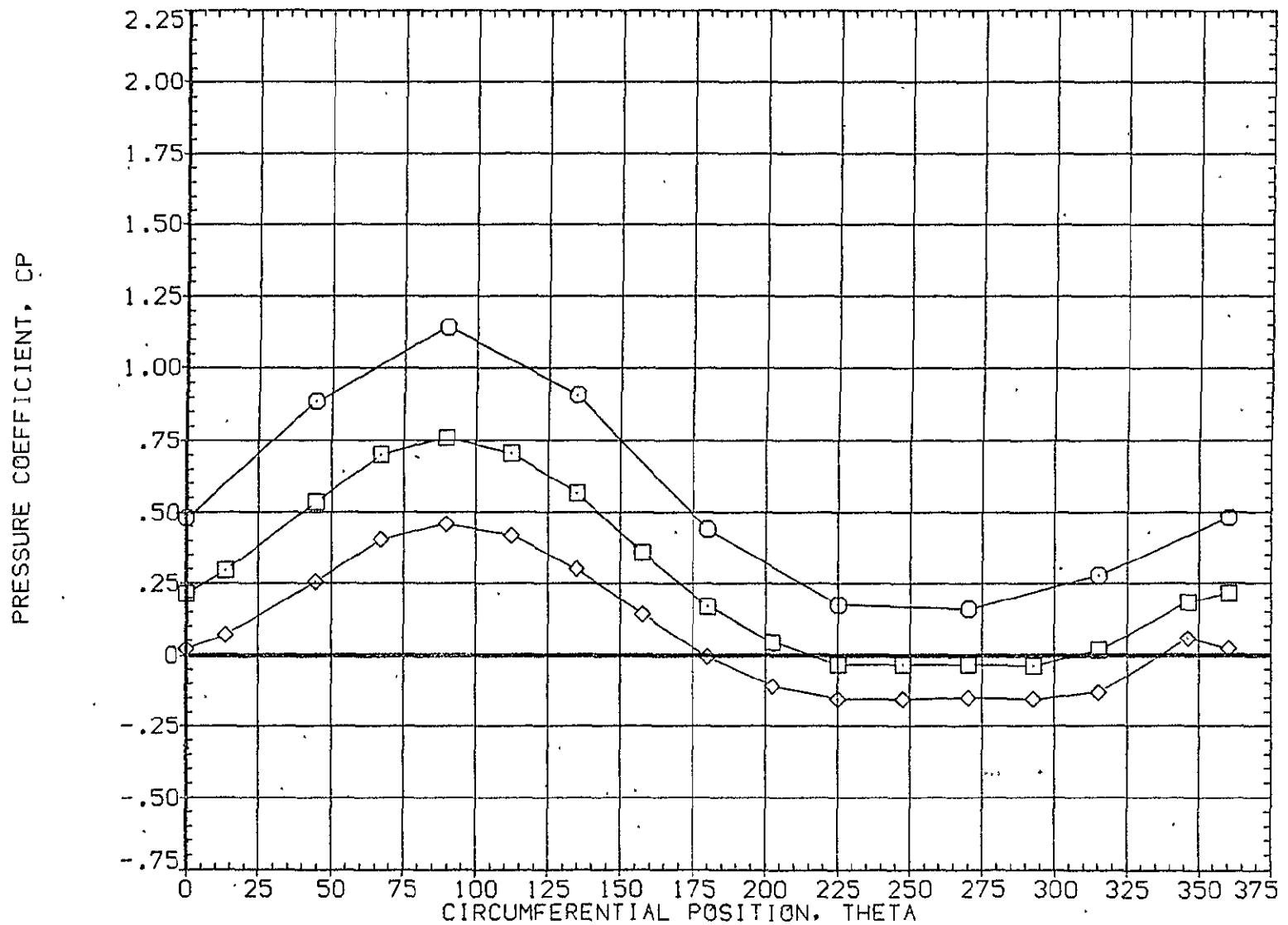


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.740	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	20,000
MOUNT	PHI	270,000

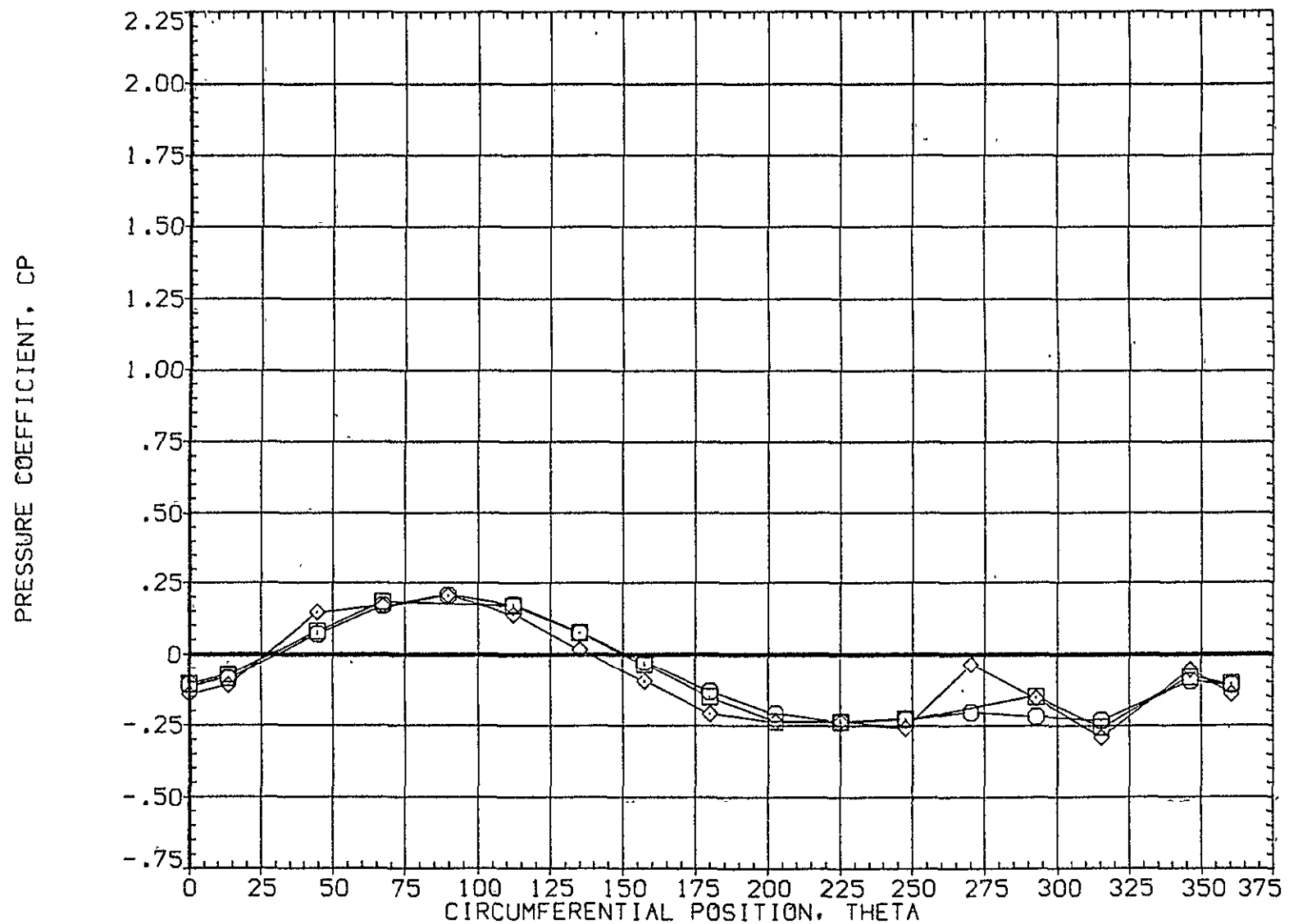


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A058)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	20.740	1.960	MOUNT	.000	PHI	270.000
□	.735						
◇	.860						

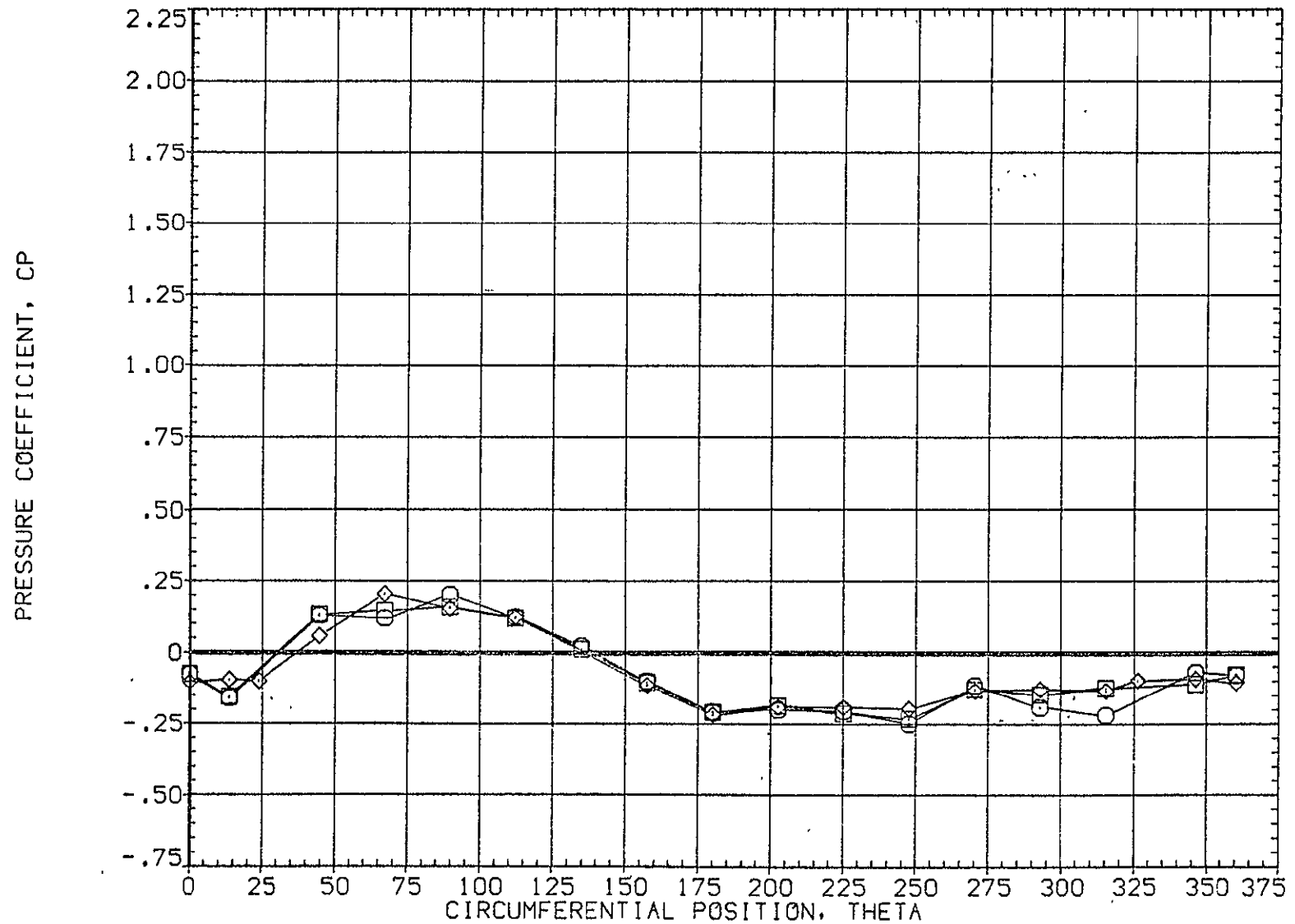


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	20.740	1.960
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

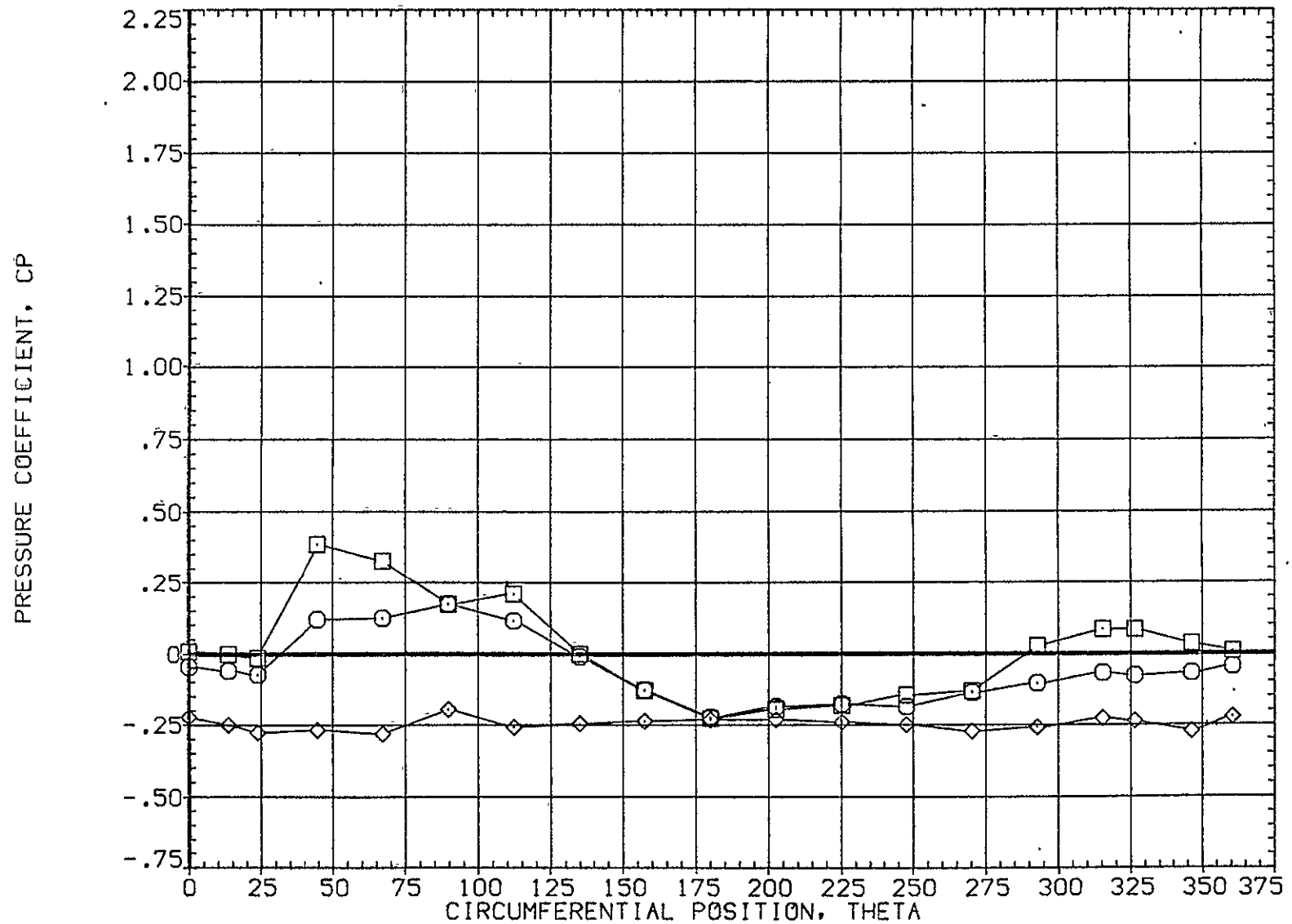


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A059)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	24.850	1.960	MOUNT	.000	20.000
□	.108				PHI	270.000
◇	.162					

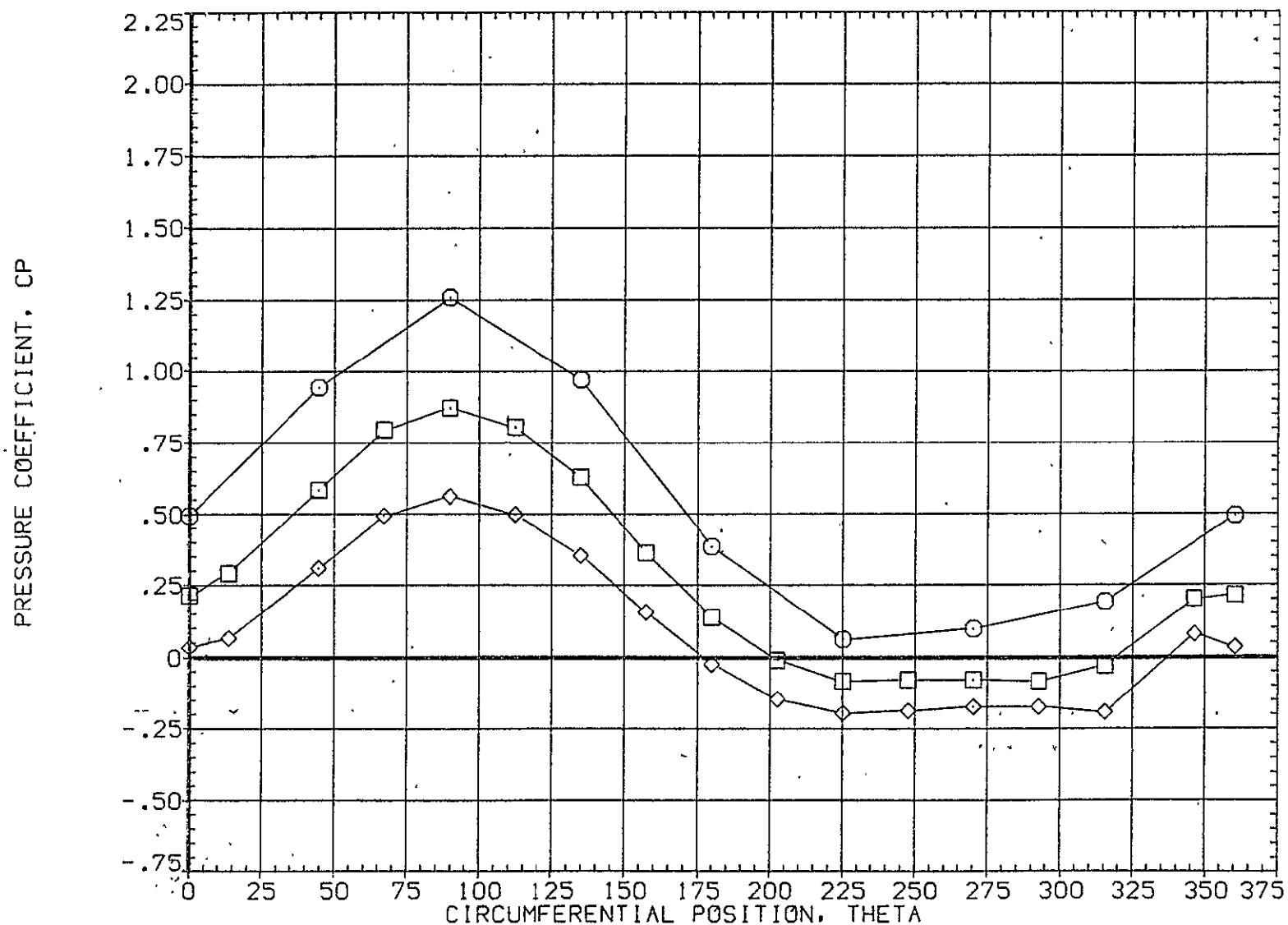


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	24.850	1.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

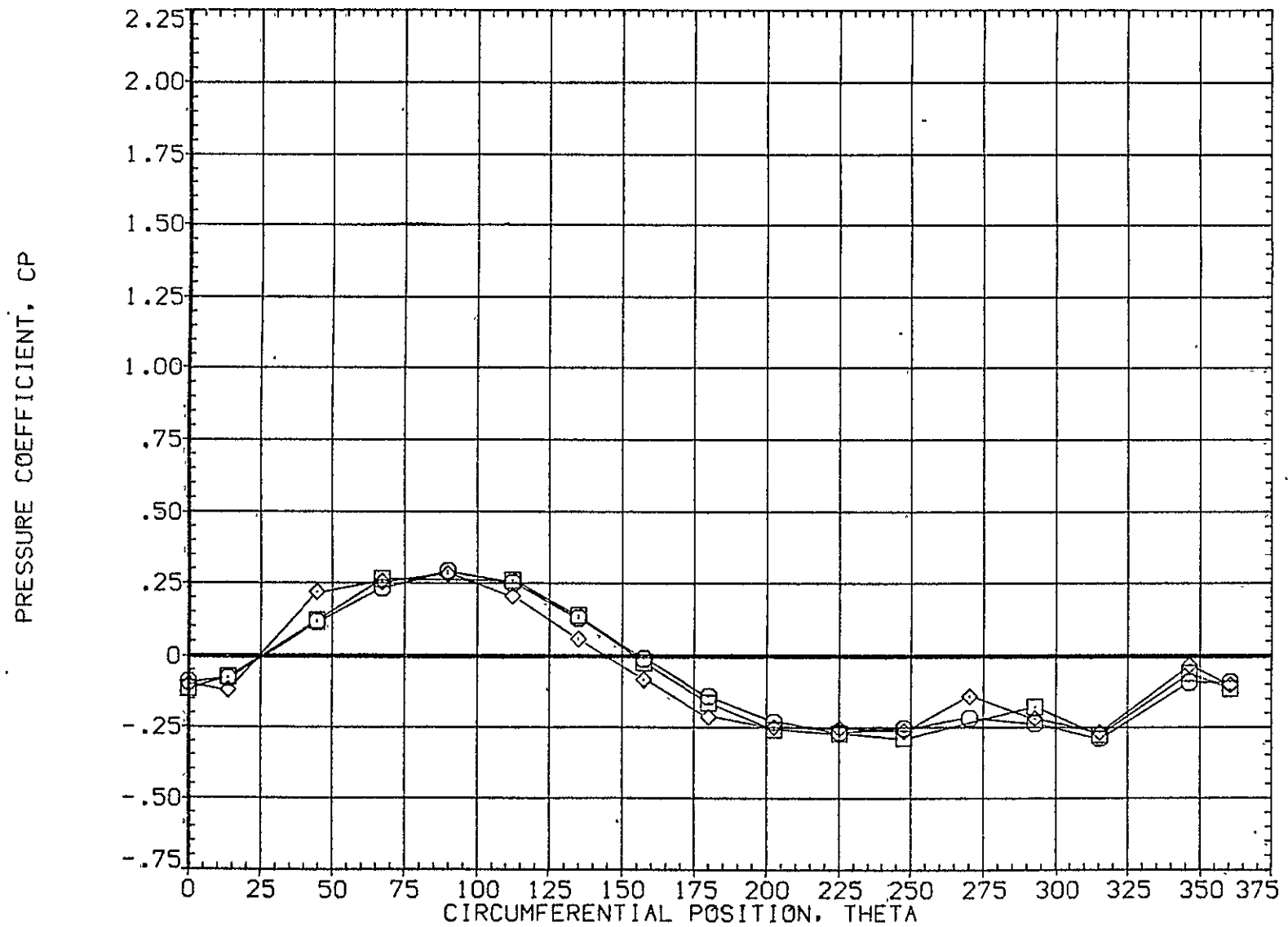


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A059)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.610	24.850	1.960	MOUNT	.000	PHI	270.000
□	.735				1.000		
◇	.860						

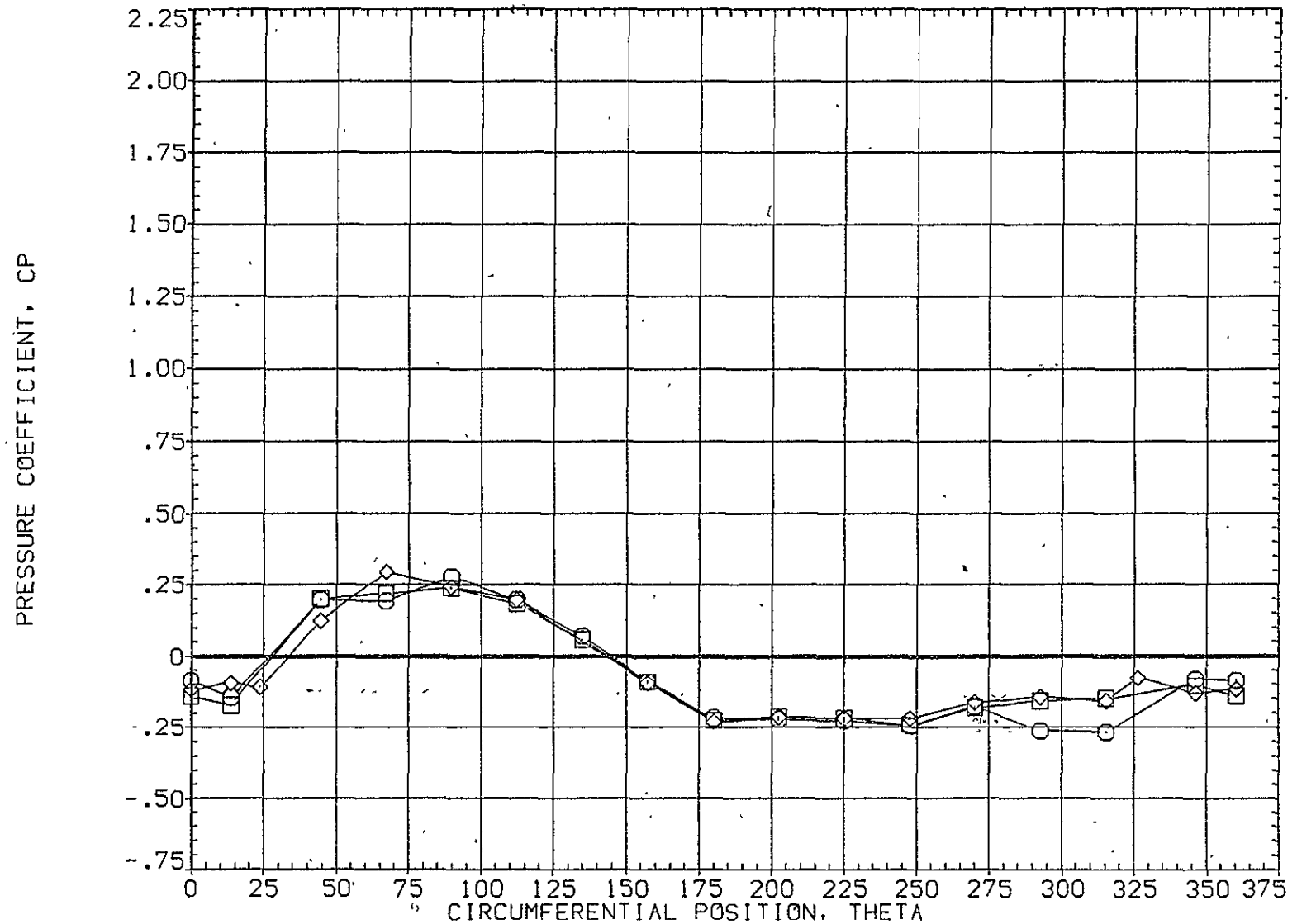


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
						20.000
○	.892	24.850	1.960			
□	.923					
◇	.954					270.000

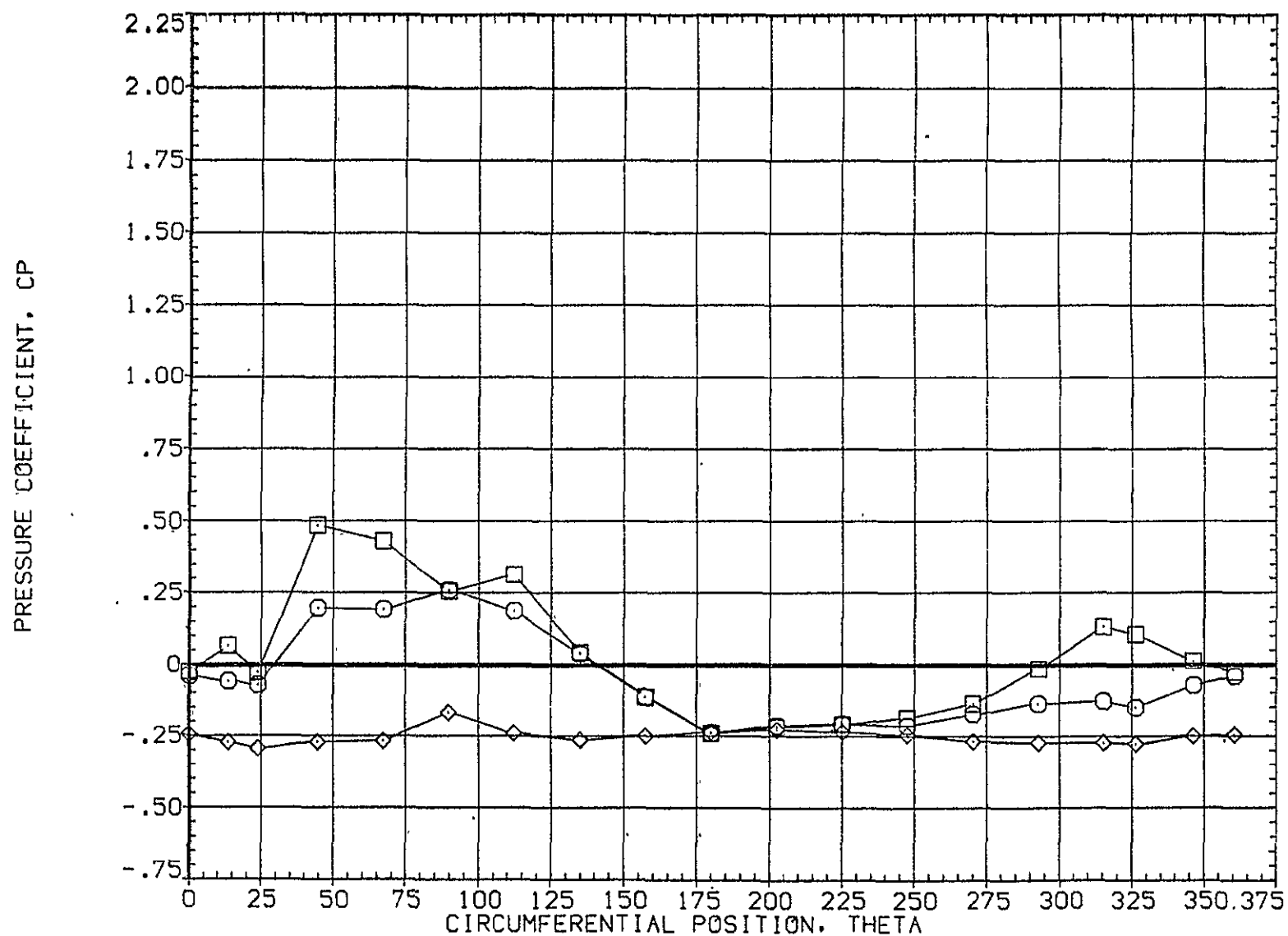


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	28.930	1.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20,000
MOUNT	1.000	PHI	270,000

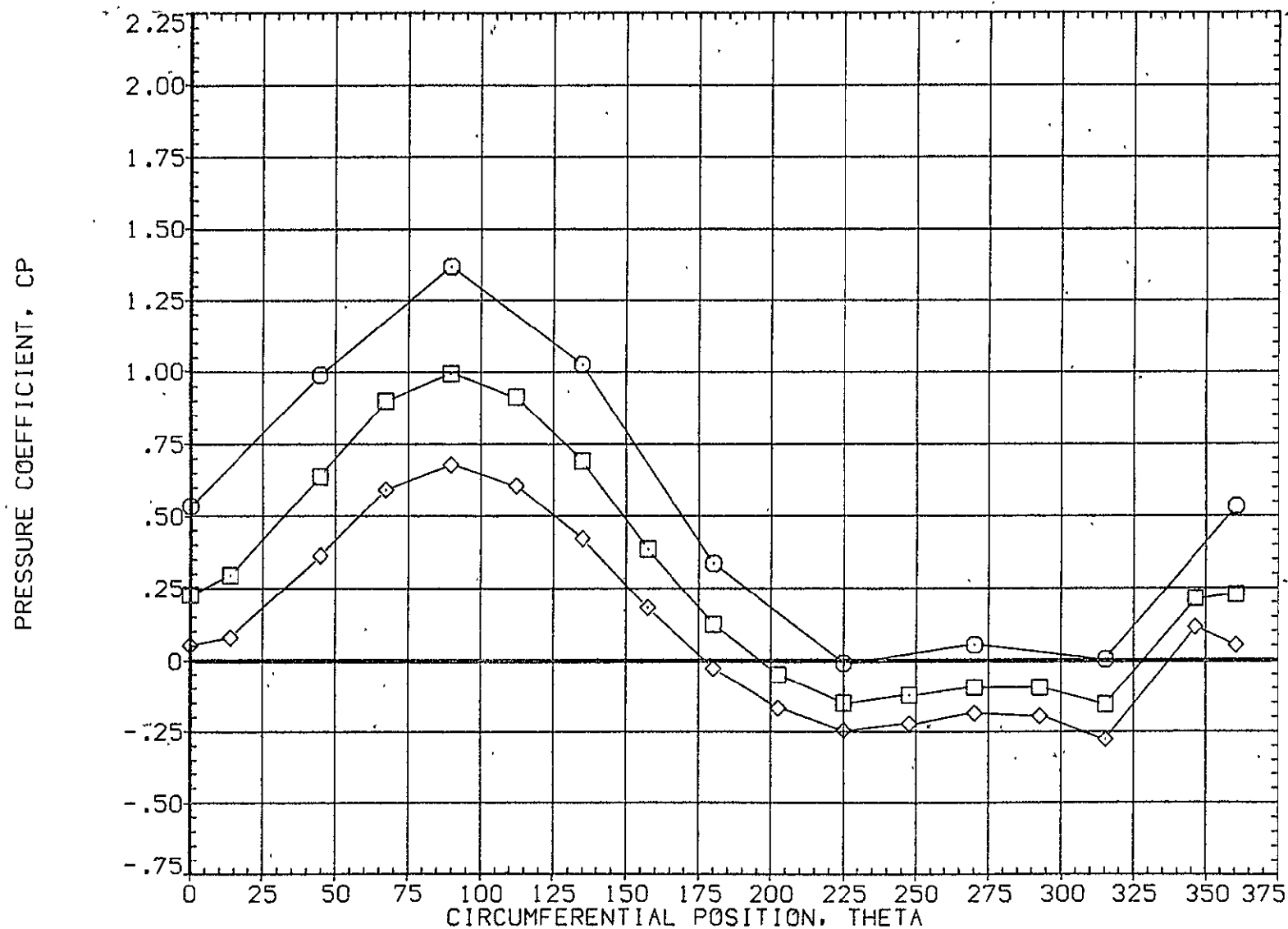


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.216	28.930	1.960	MOUNT	.000	PHI	270.000
□	.322						
◇	.518						

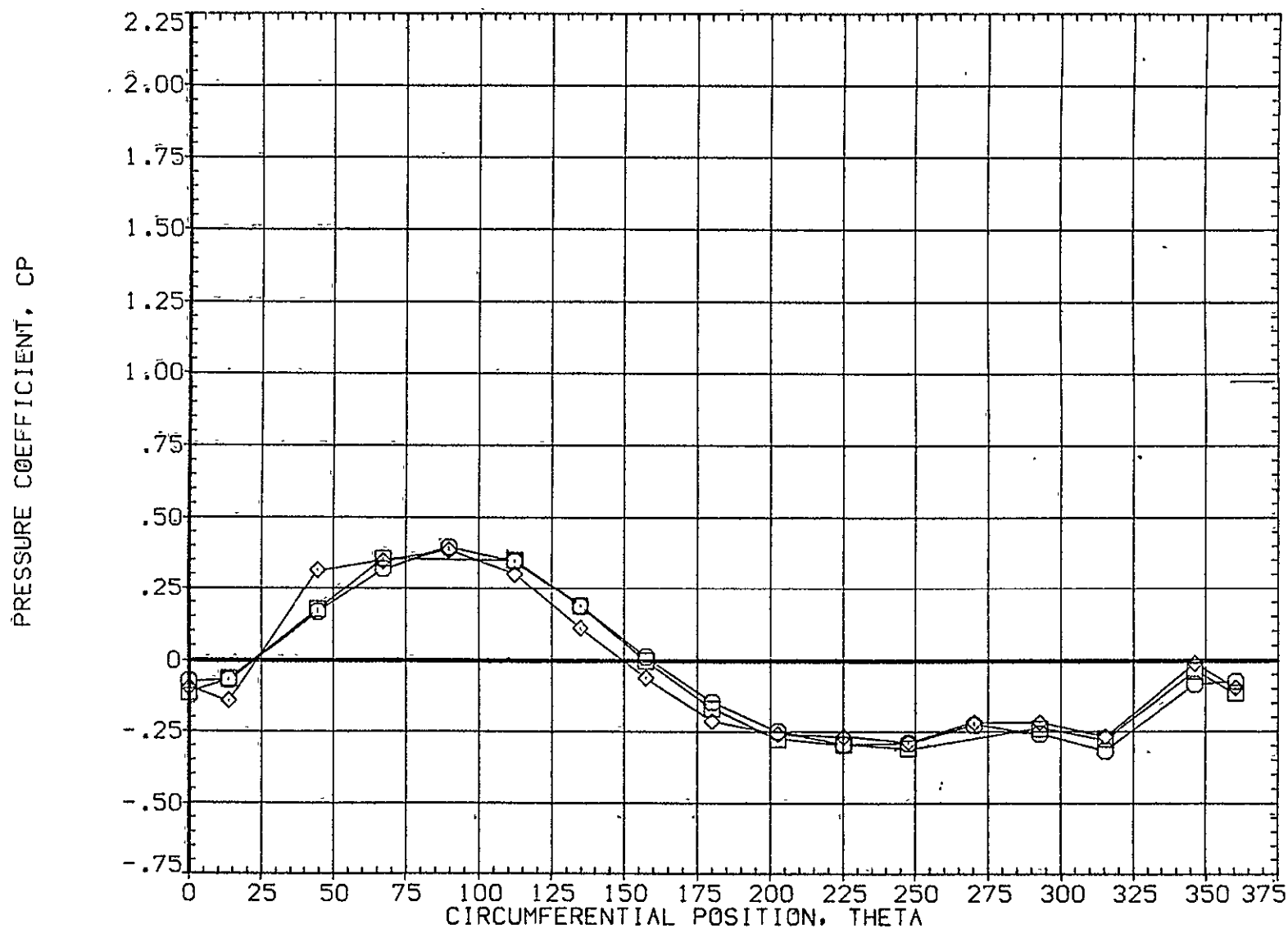


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A060)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	28.930	1.960	.000	OFFSET 20.000
□	.735			1.000	PHI 270.000
◇	.860				

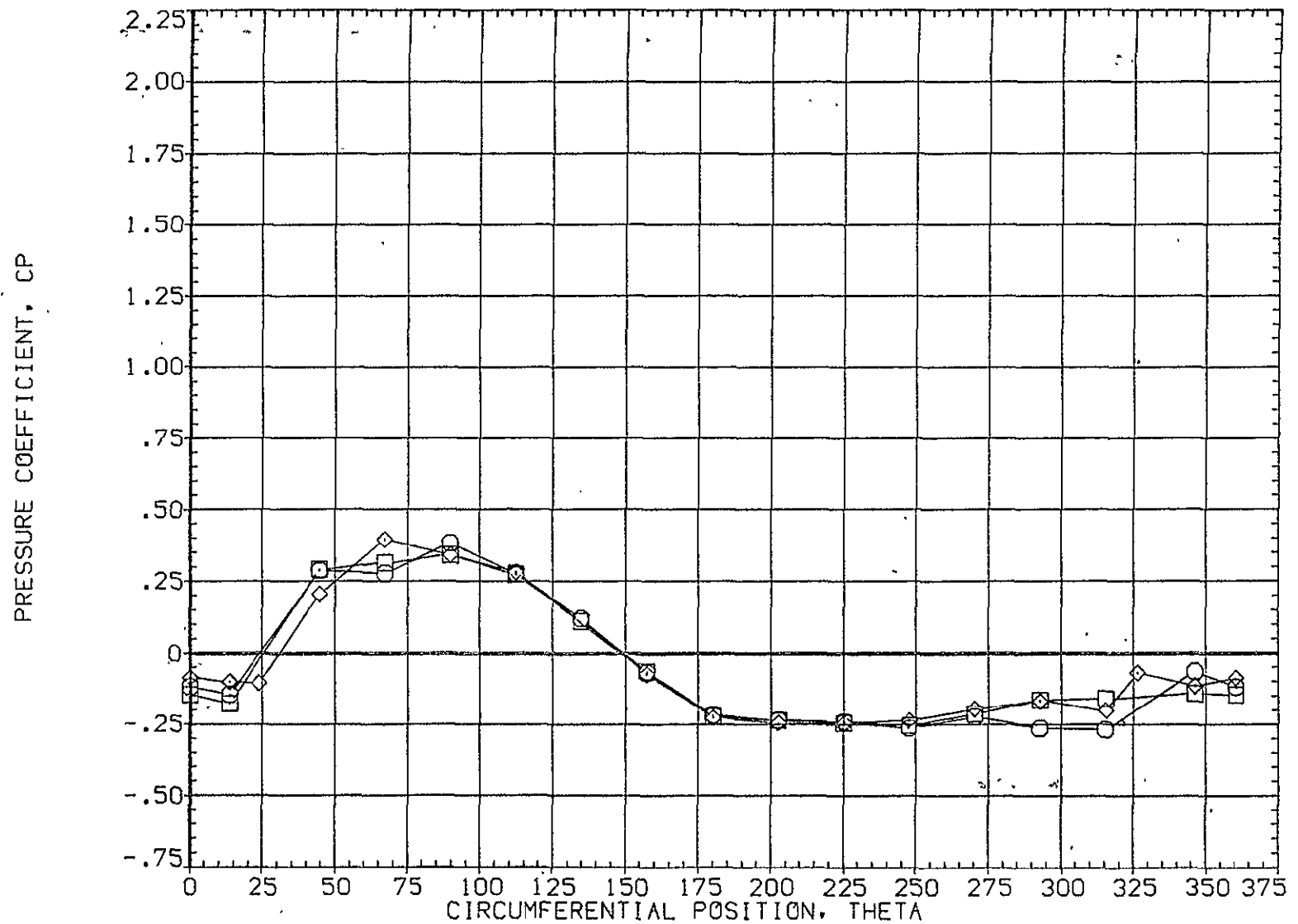


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	28.930	1.960
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

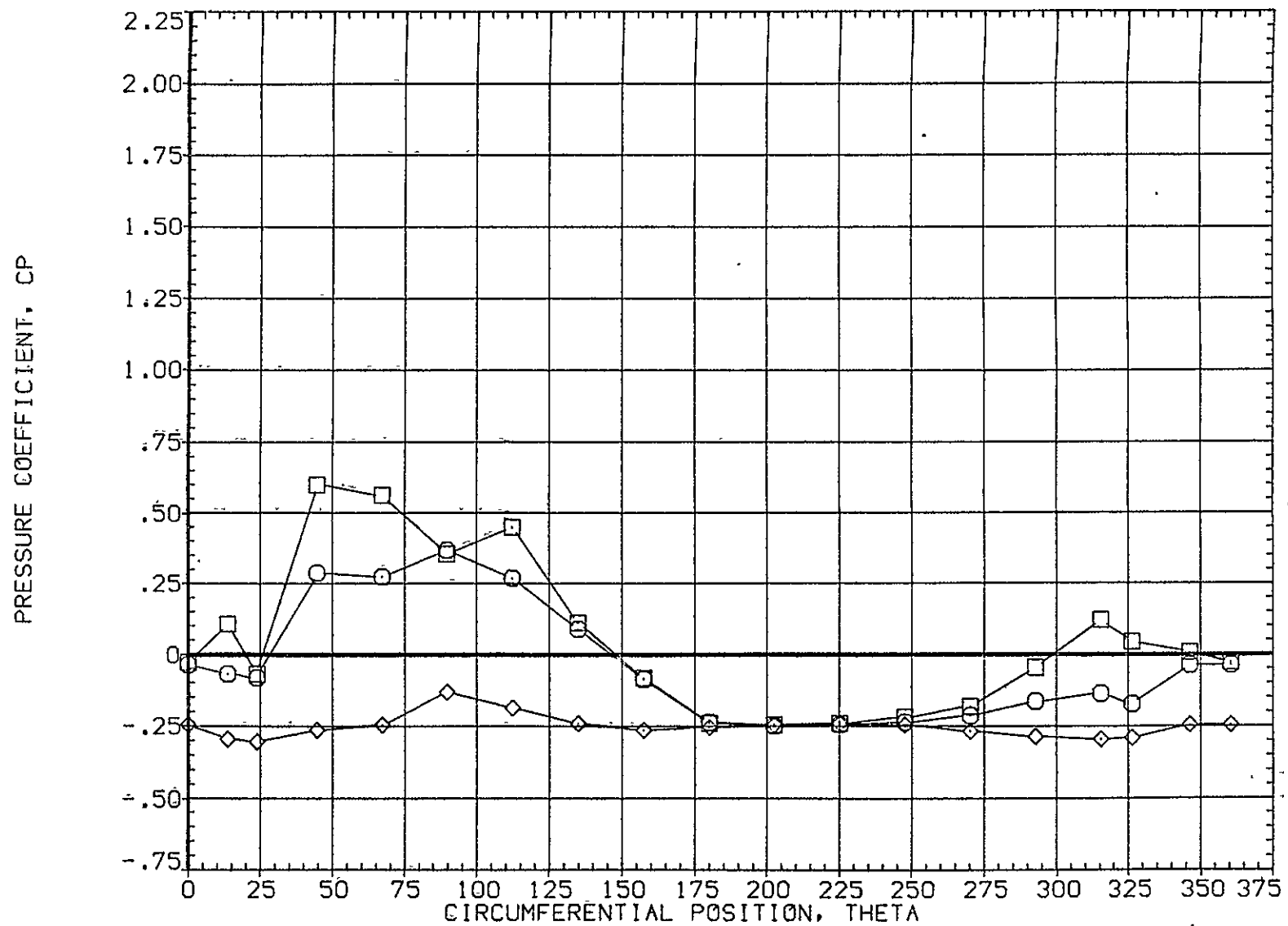


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A001)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-8.360	3.480	MOUNT	.000	PHI	.000
□	.108				1.000		.000
◇	.162						

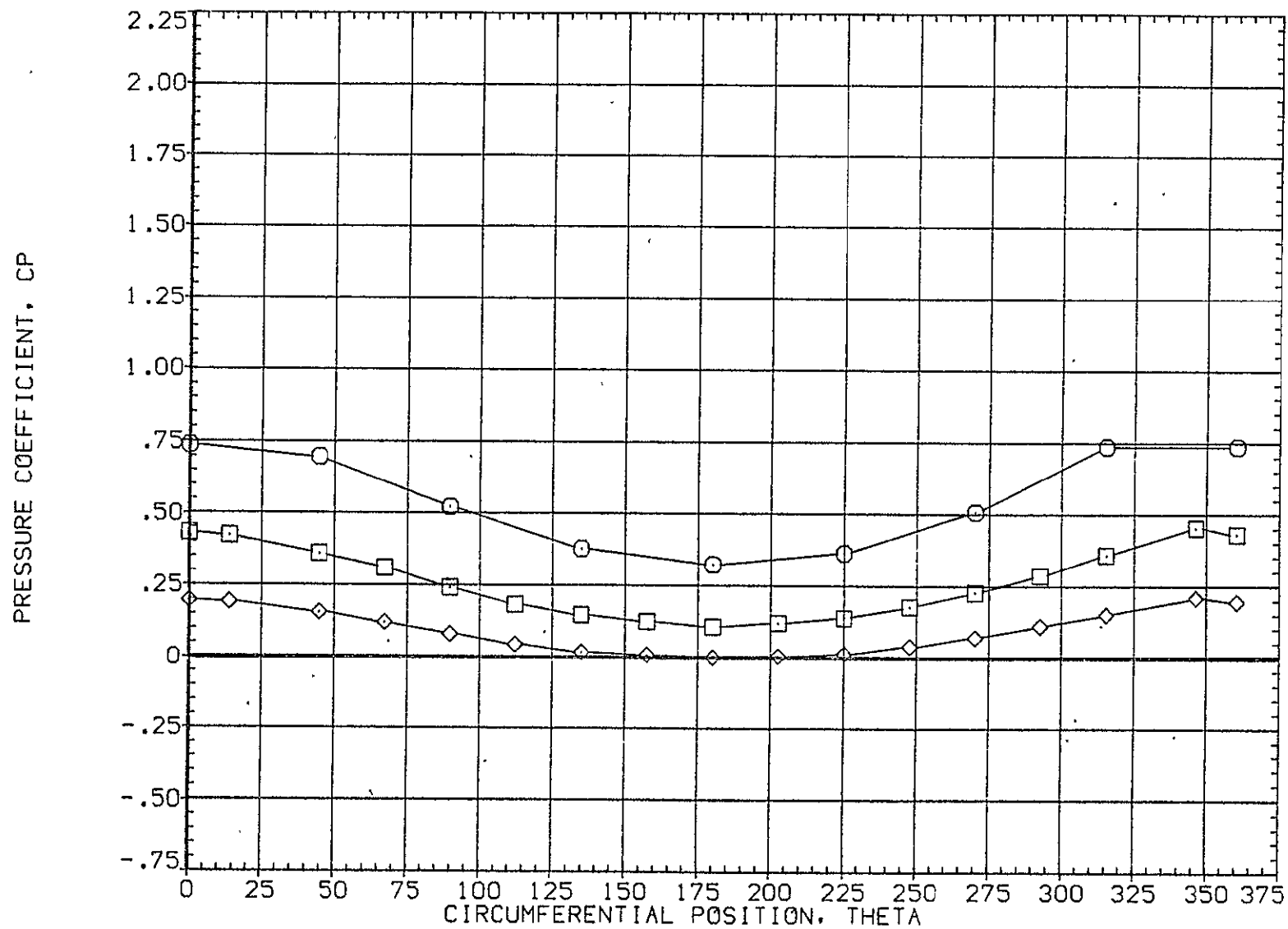


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-8.360	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	.000

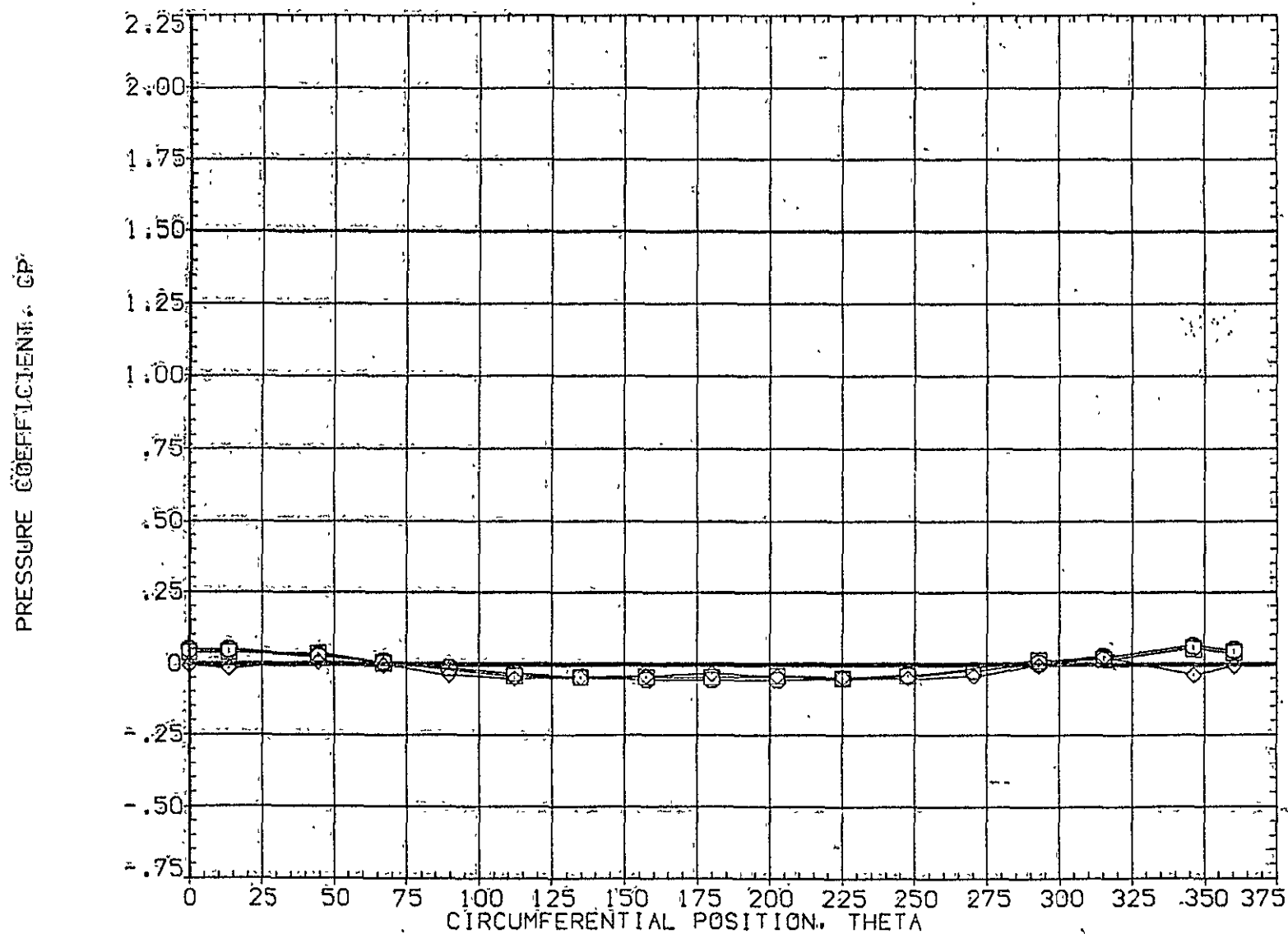


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A001)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-8.360	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	.000
◇	.860						

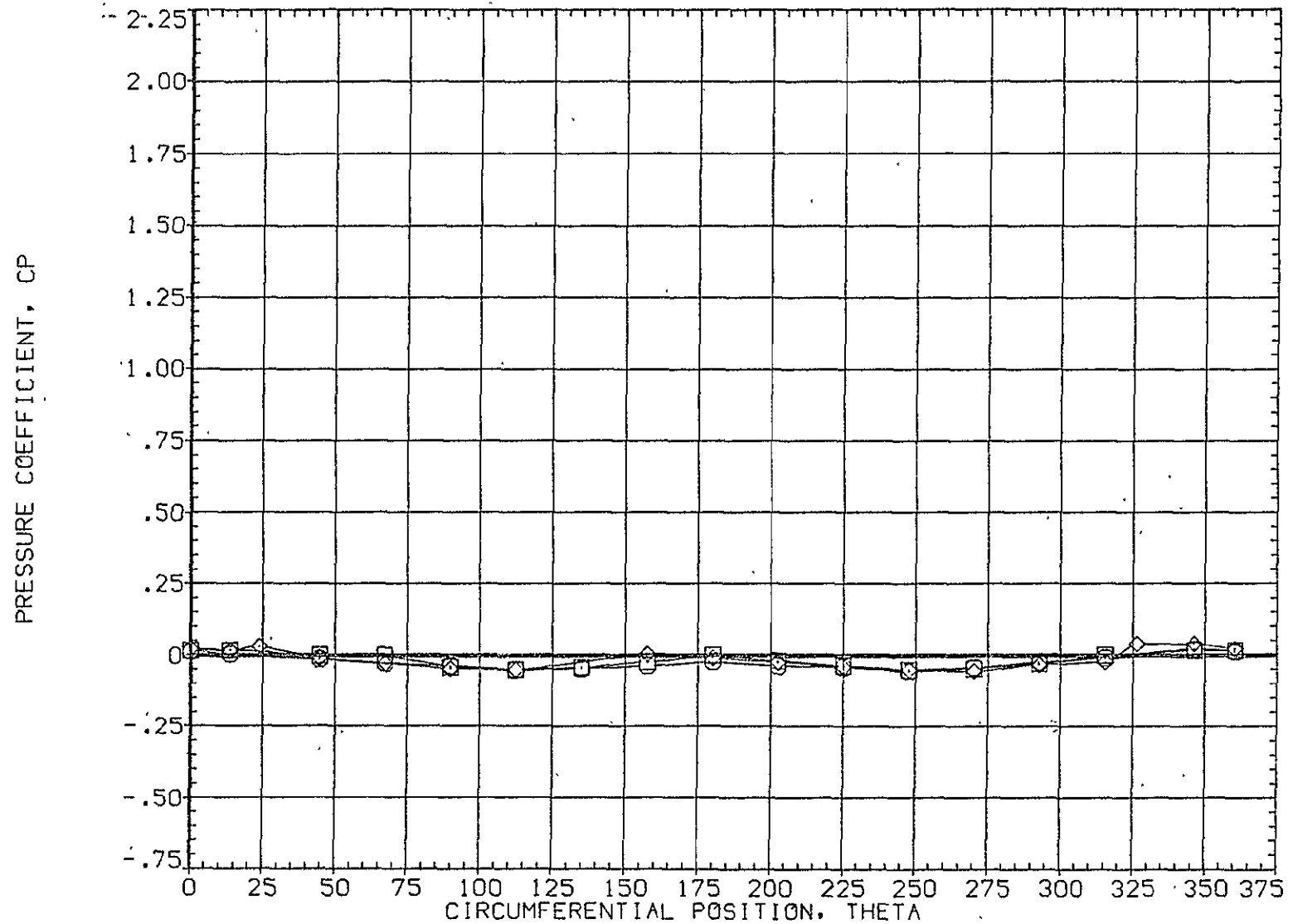


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.892	-8.360	3.480	MOUNT	.000	OFFSET	.000
□	.923				1.000	PHI	.000
◇	.954						

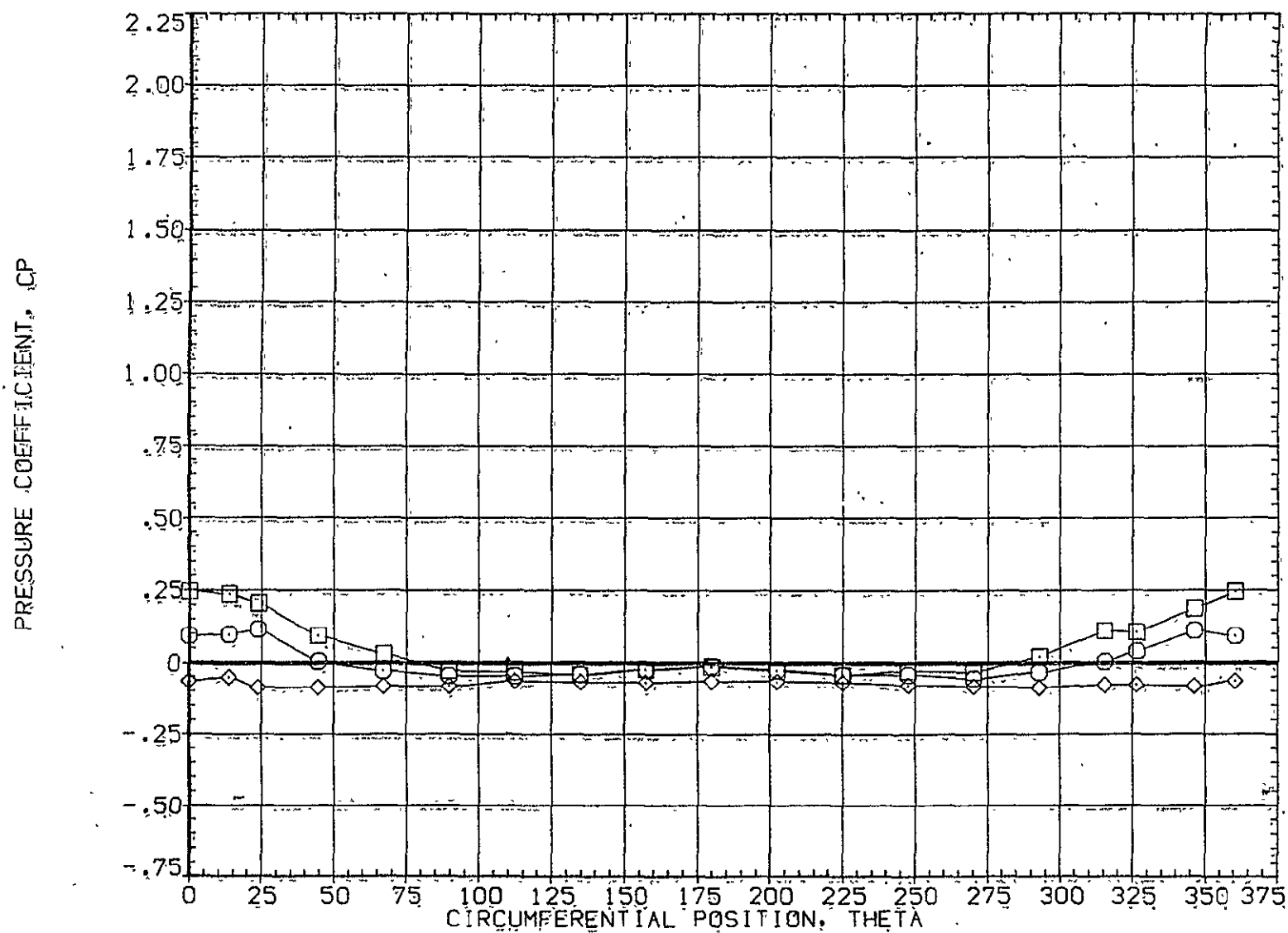


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A002)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-4.330	3.480	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	.000
◇	.162						

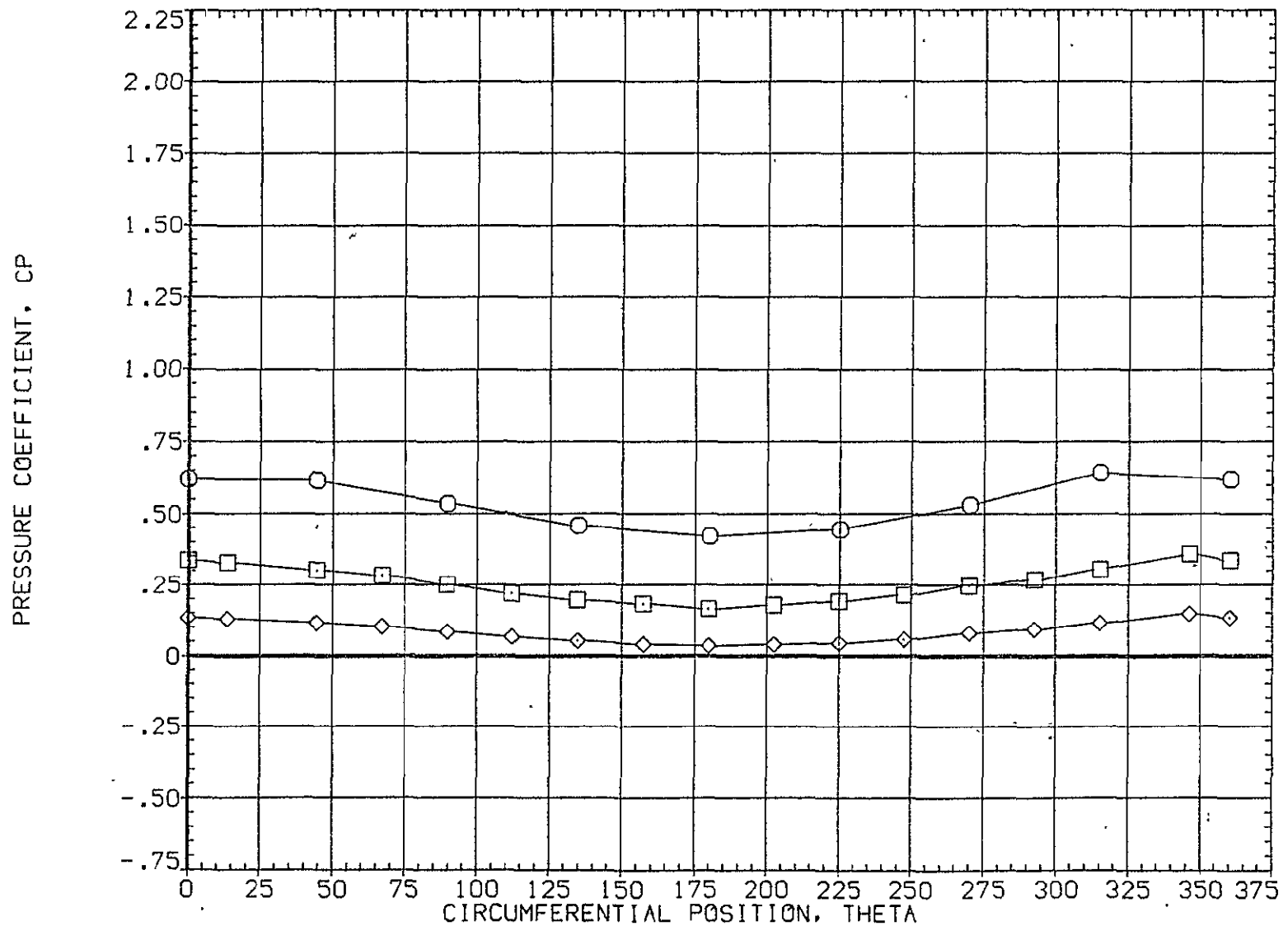


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-4.330	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	
1.000	.000	

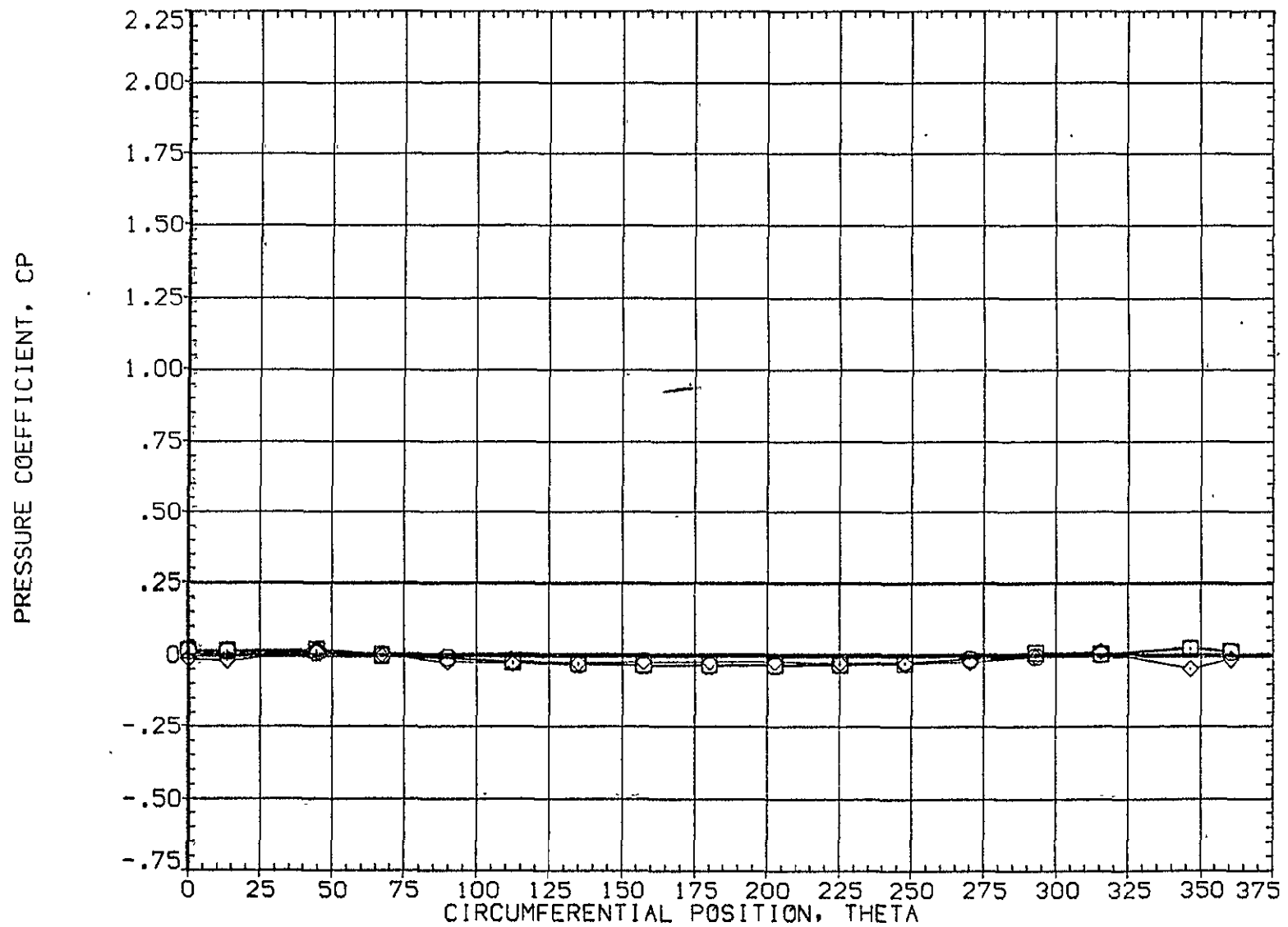


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A002)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-4.330	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	.000
◇	.860						

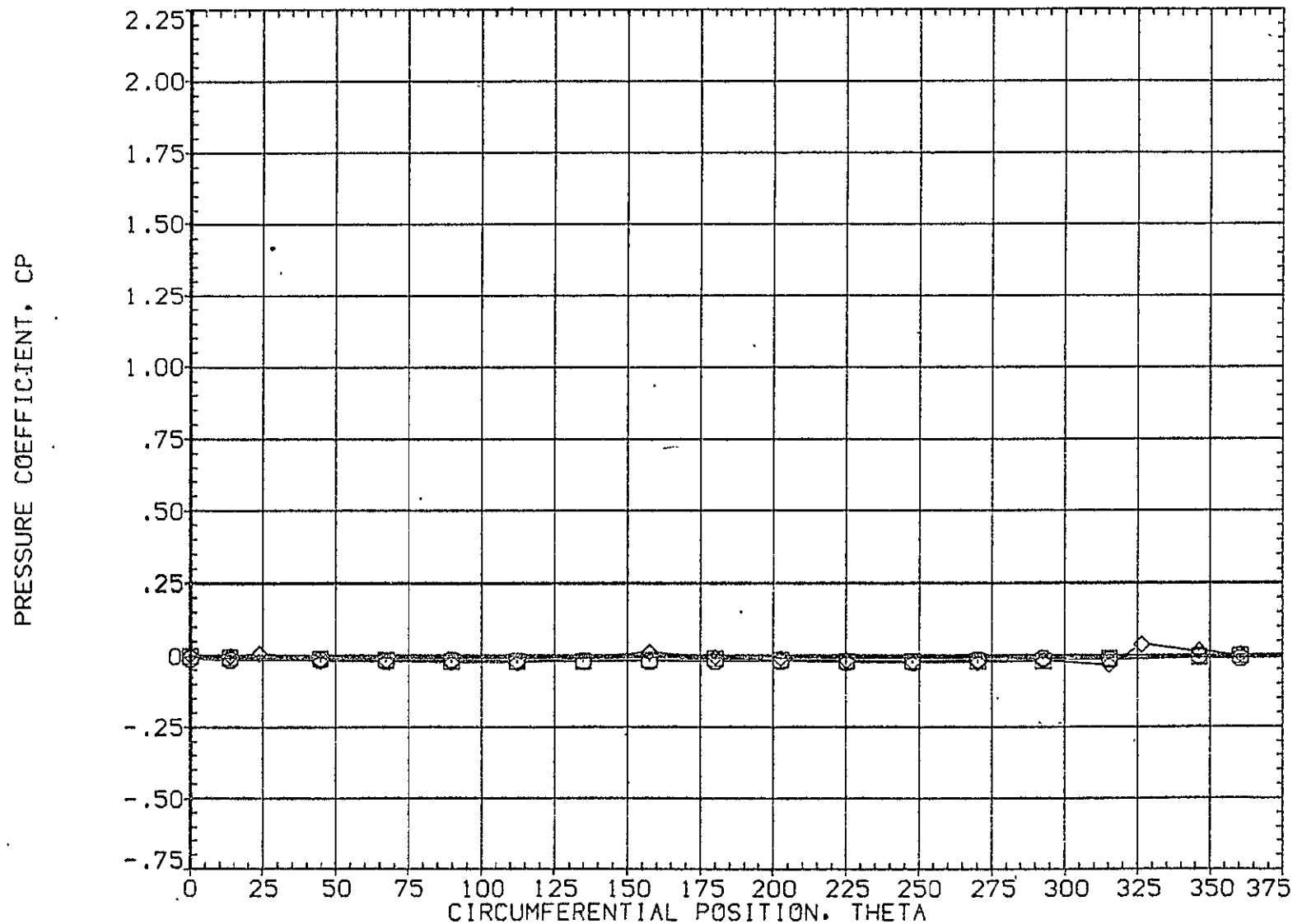


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-4.330	3.480	.000	.000	.000
□	.923			1.000	PHI	.000
◇	.954					

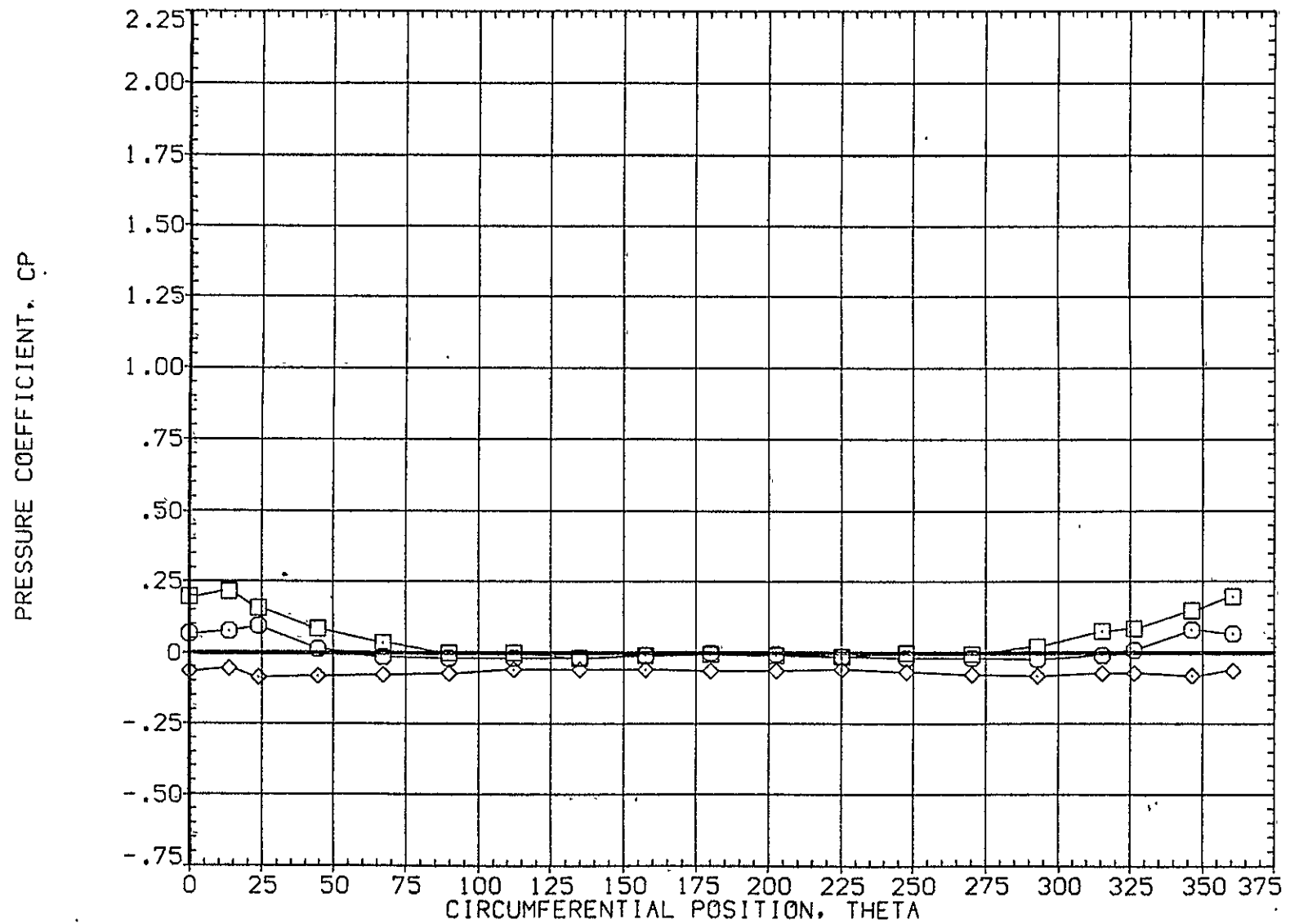


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A003)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.055	-.280	3.480	BETA	.000	OFFSET	.000
□	.108			MOUNT	1.000	PHI	.000
◇	.162						

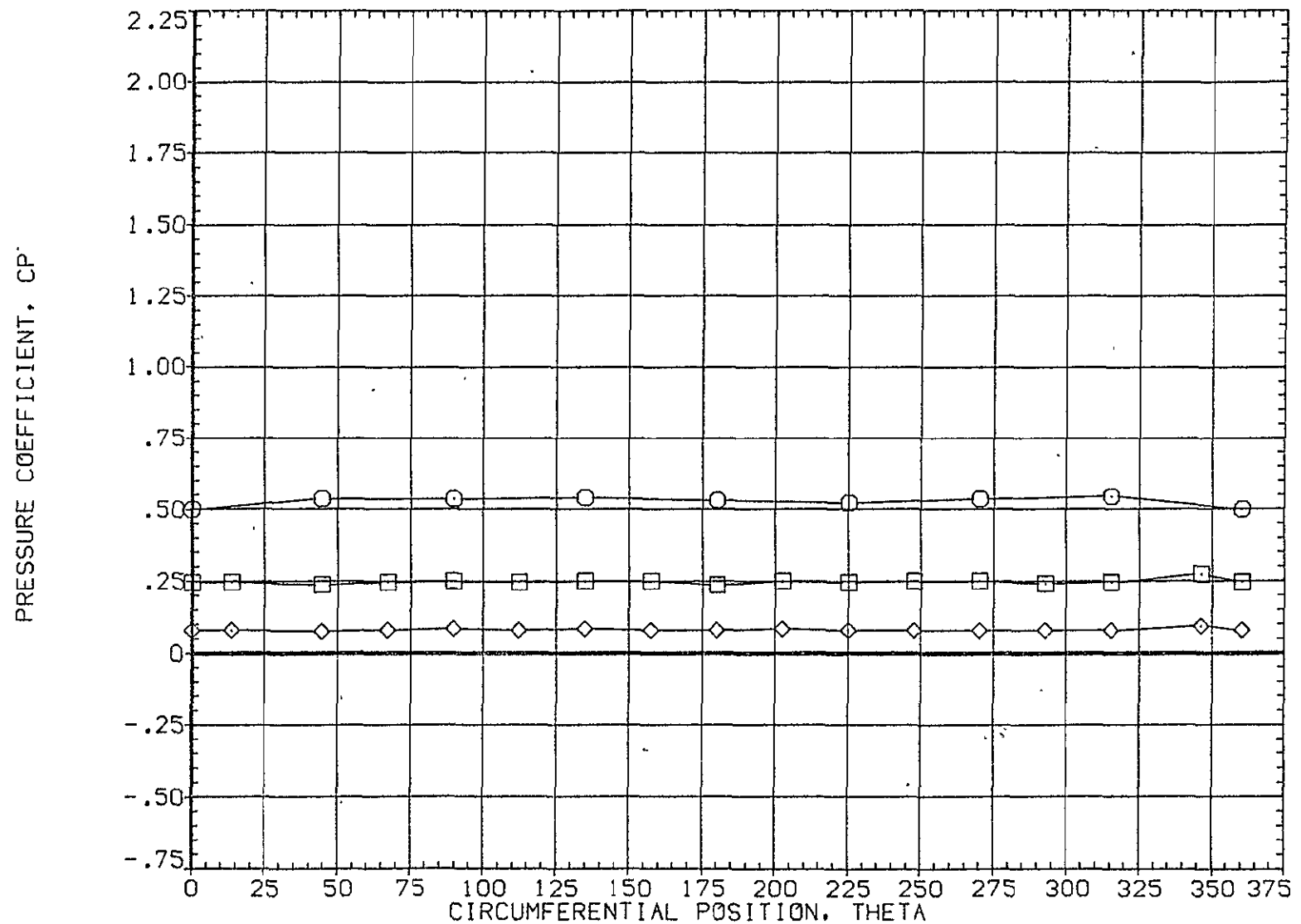


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.216	-.280	3.480		.000		.000
□	.322			MOUNT	1.000	PHI	.000
◇	.518						

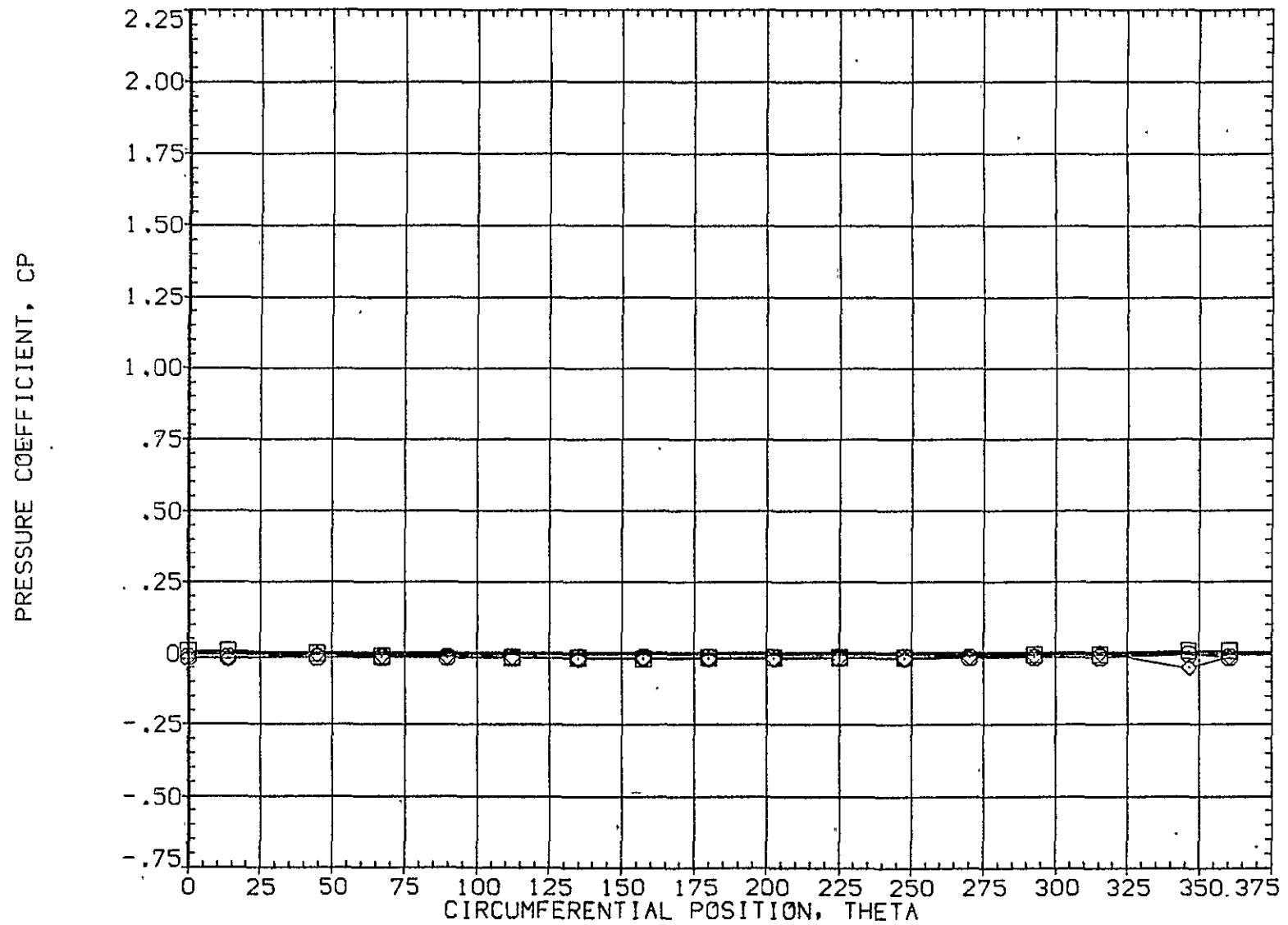


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A003)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-.280	3.480	.000			.000
□	.735			1.000	PHI		.000
◇	.860						

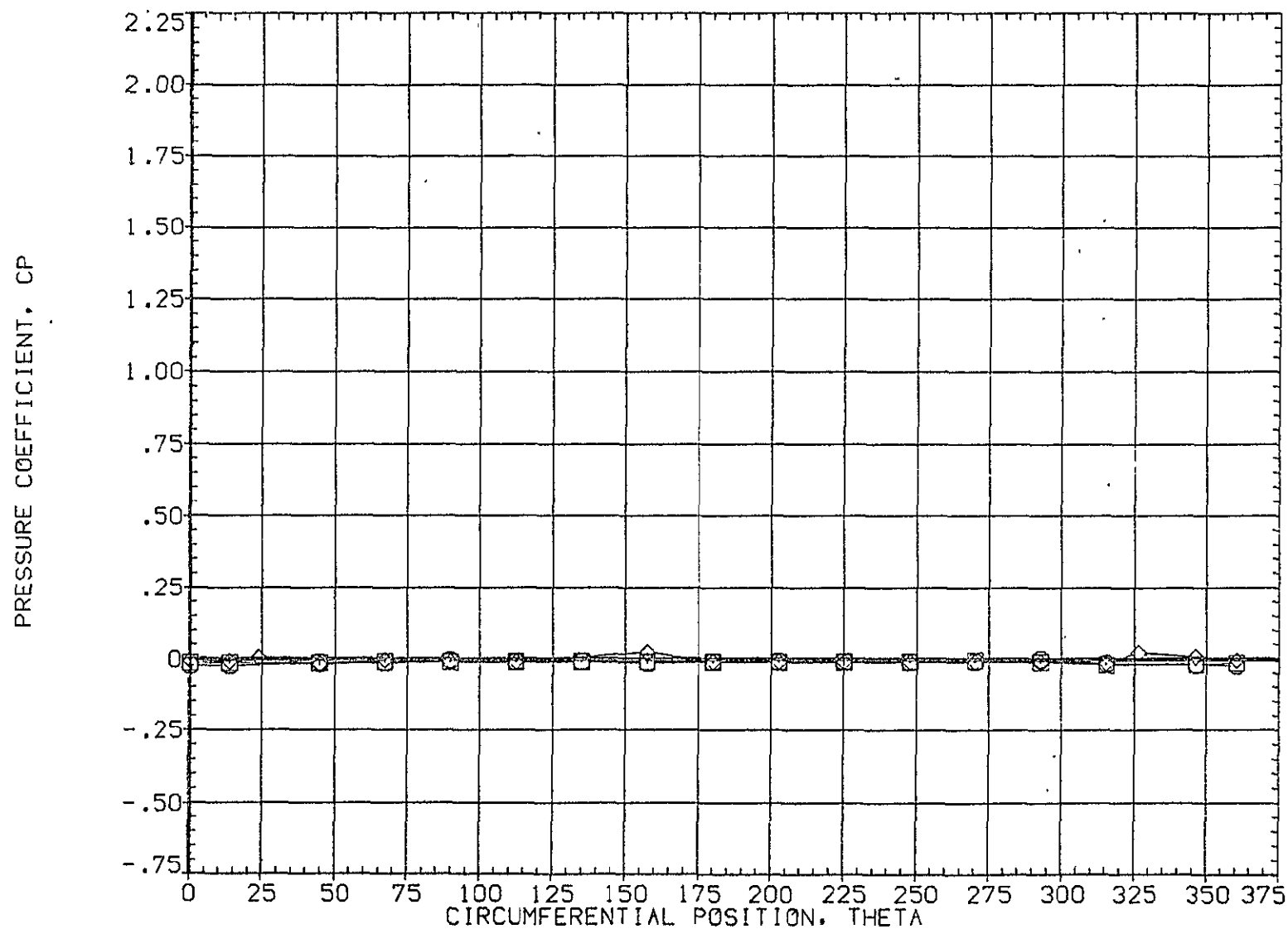


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	-.280	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	
1.000	.000	

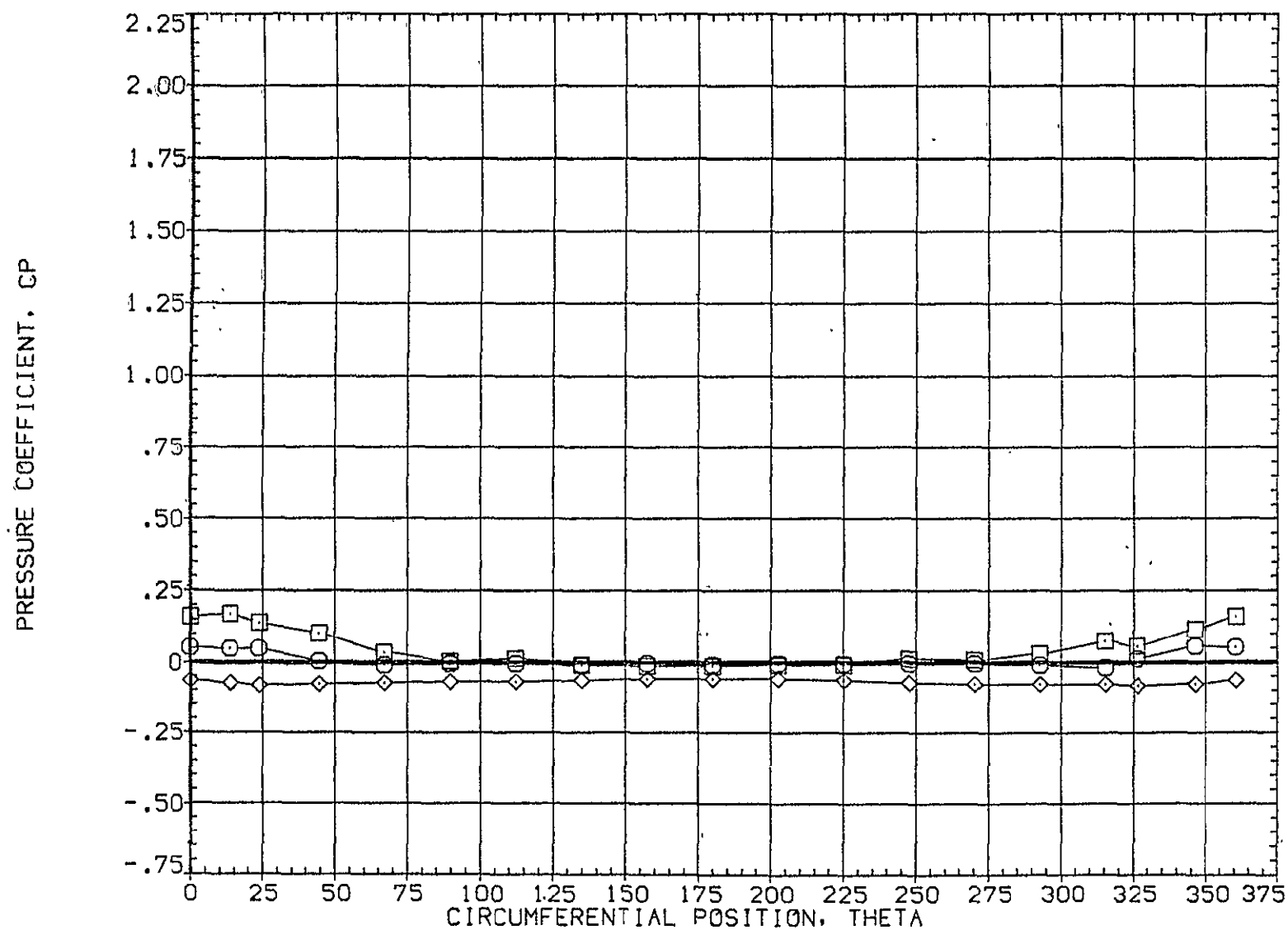


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A004)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	3.770	3.480	.000		.000	
□	.108			1.000	PHI	.000	
◇	.162						

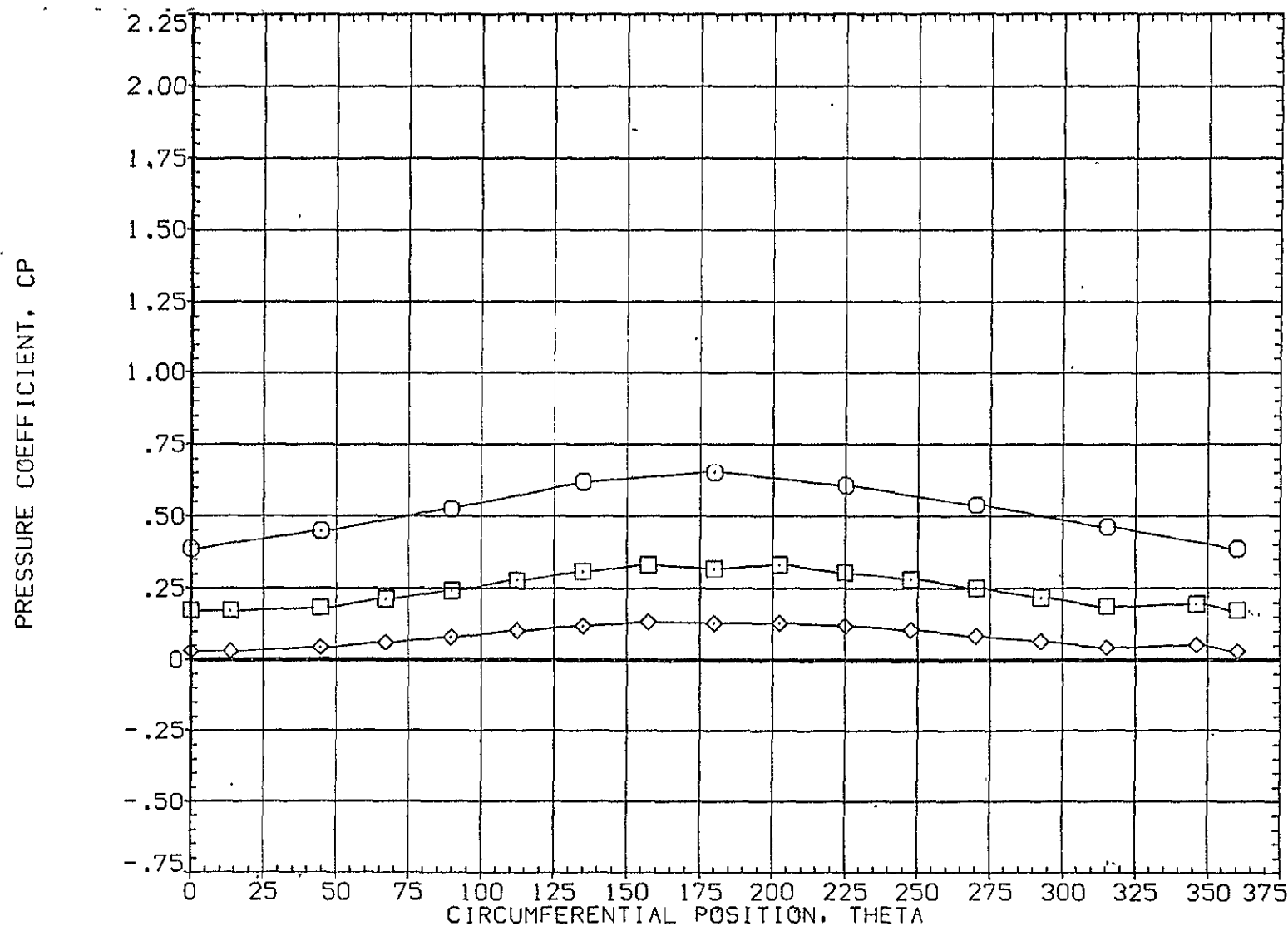


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	3.770	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	
ANGLE	PHI	
.000	.000	
1.000	.000	

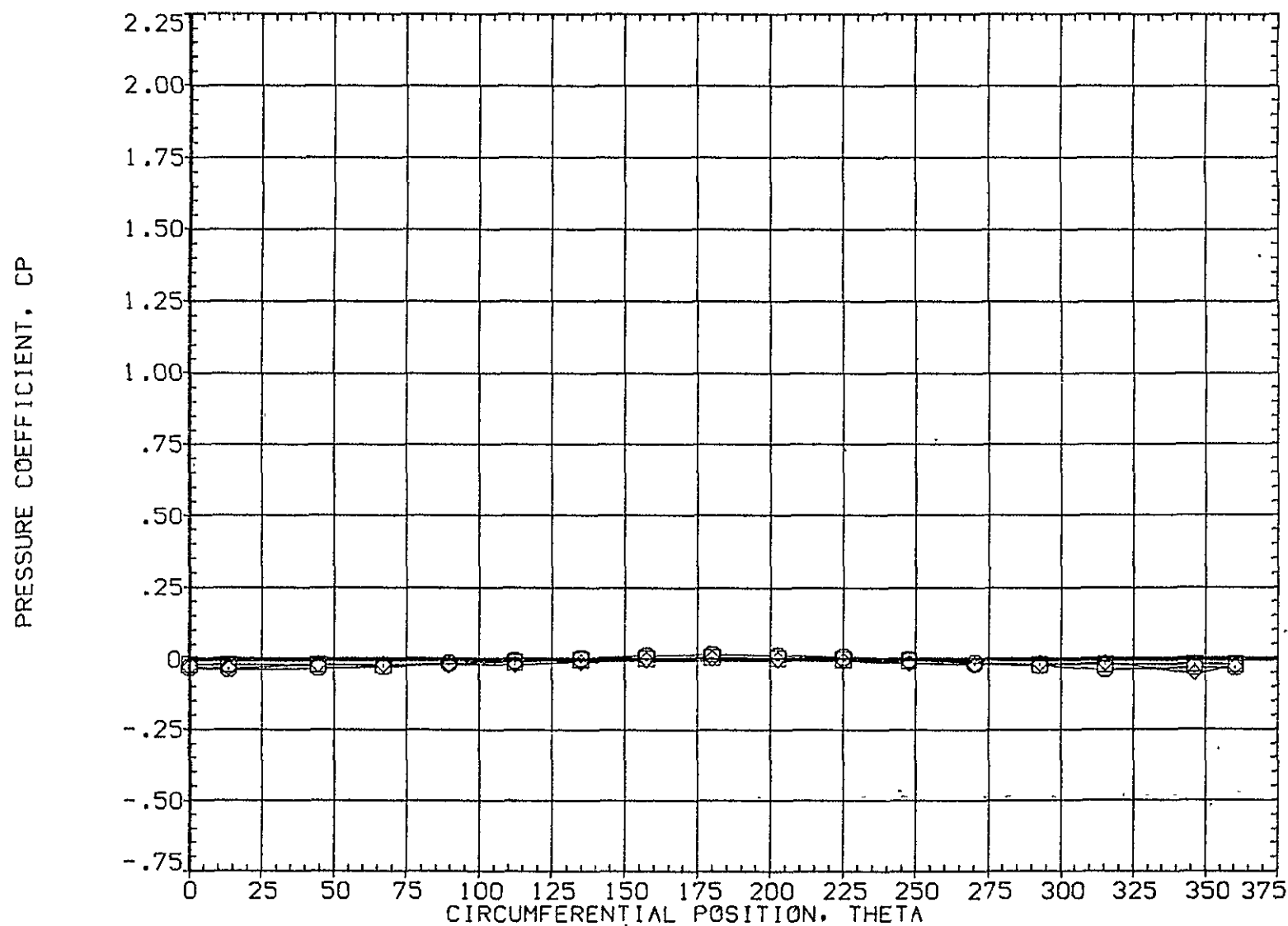


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A004)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	3.770	3.480	.000		.000	
□	.735			1.000	PHI	.000	
◇	.860						

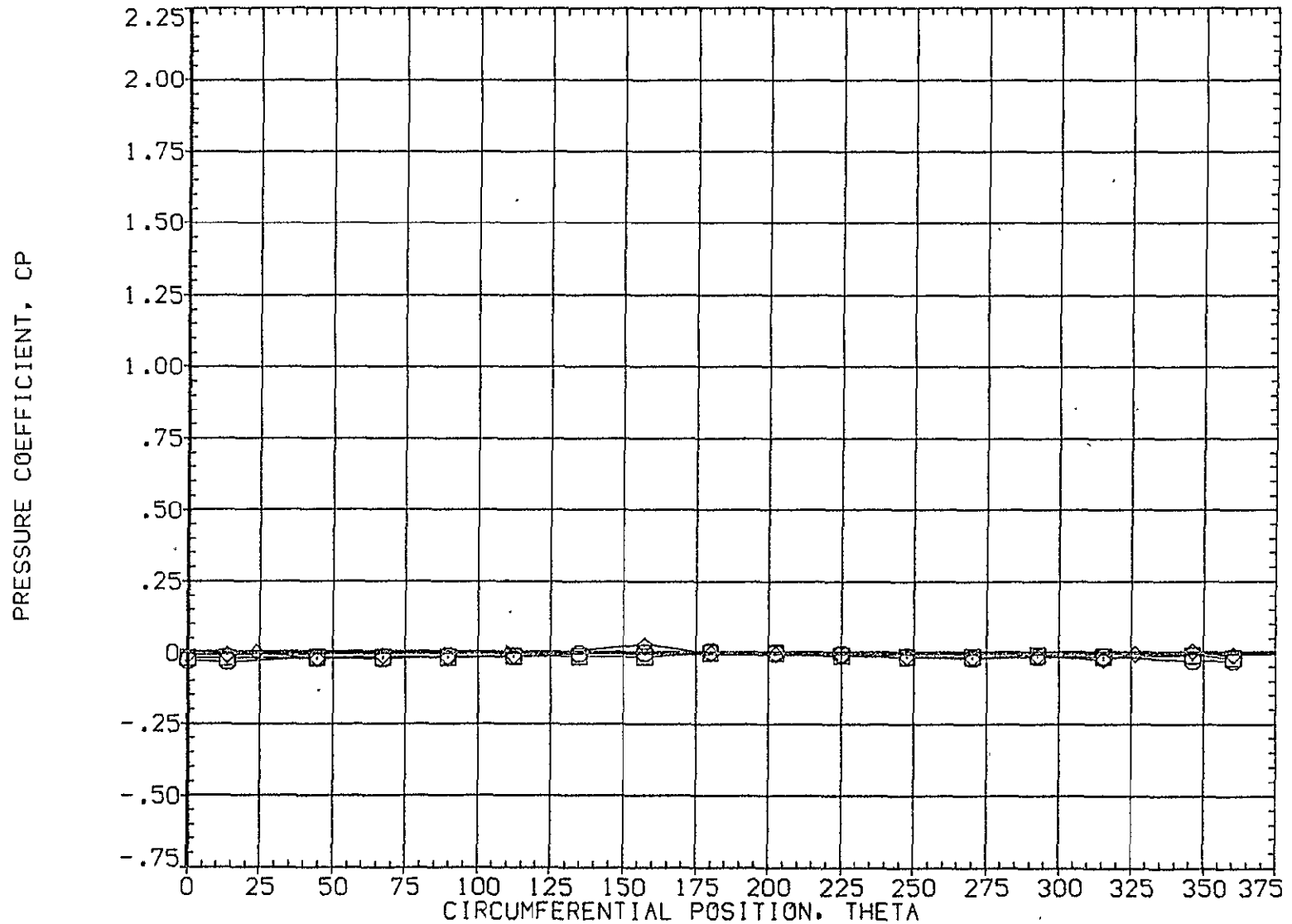


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	3.770	3.480		.000		.000
□	.923			MOUNT	1.000		.000
◇	.954						

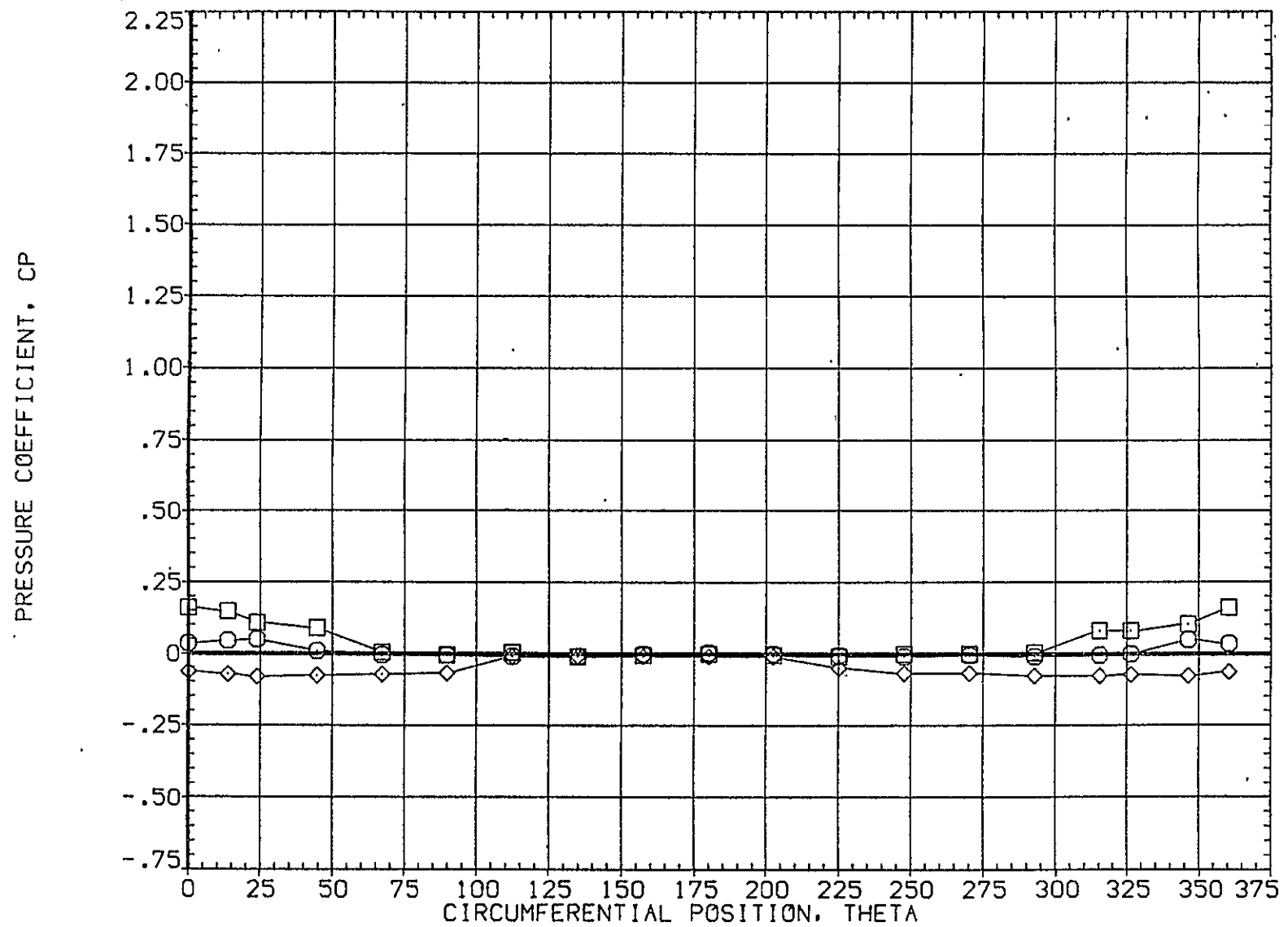


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A005)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	7.800	3.480	MOUNT	.000	.000
□	.108				1.000	PHI
◇	.162					.000

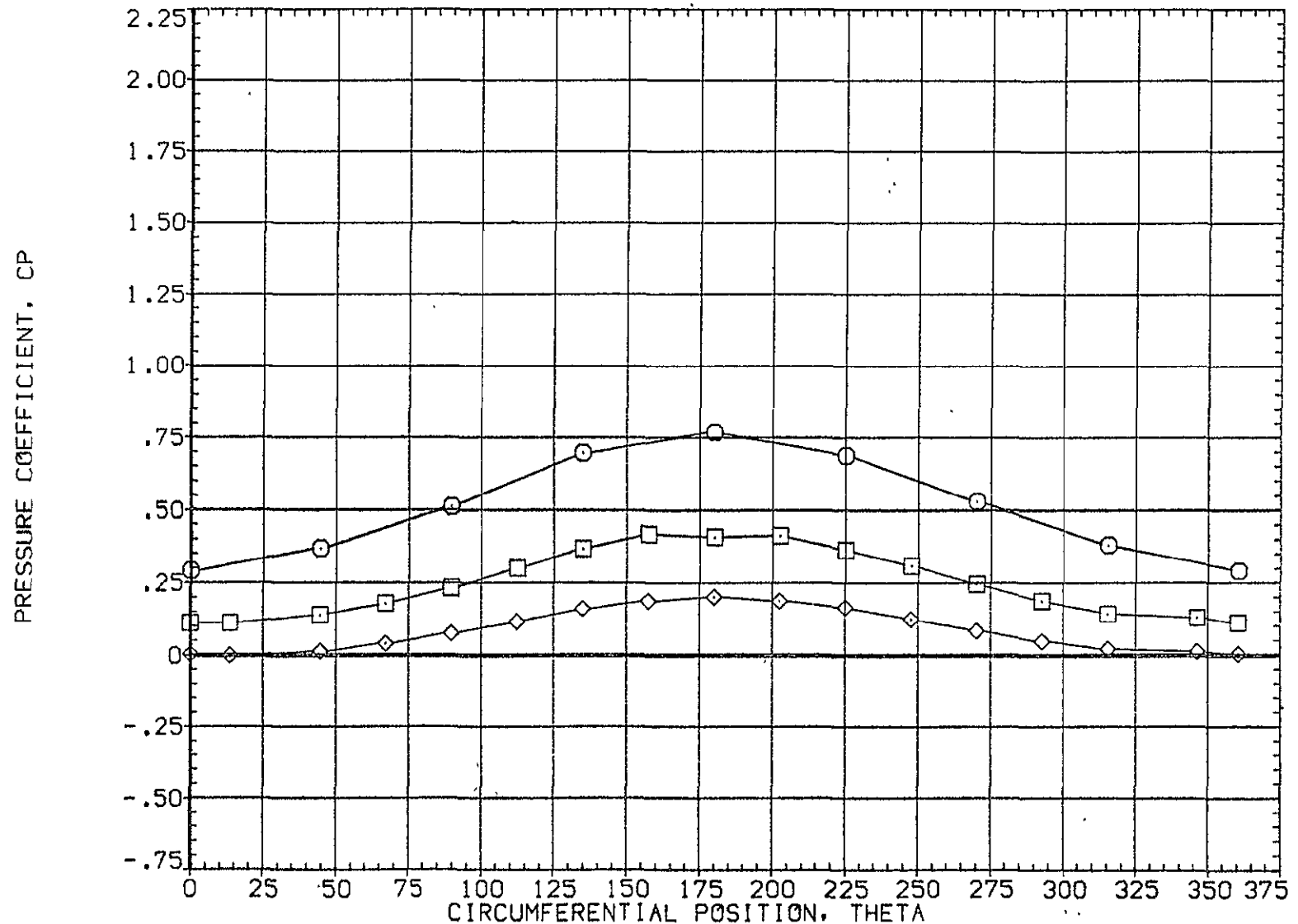


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 .000
○	.216	7.800	3.480			
□	.322					
◇	.518					

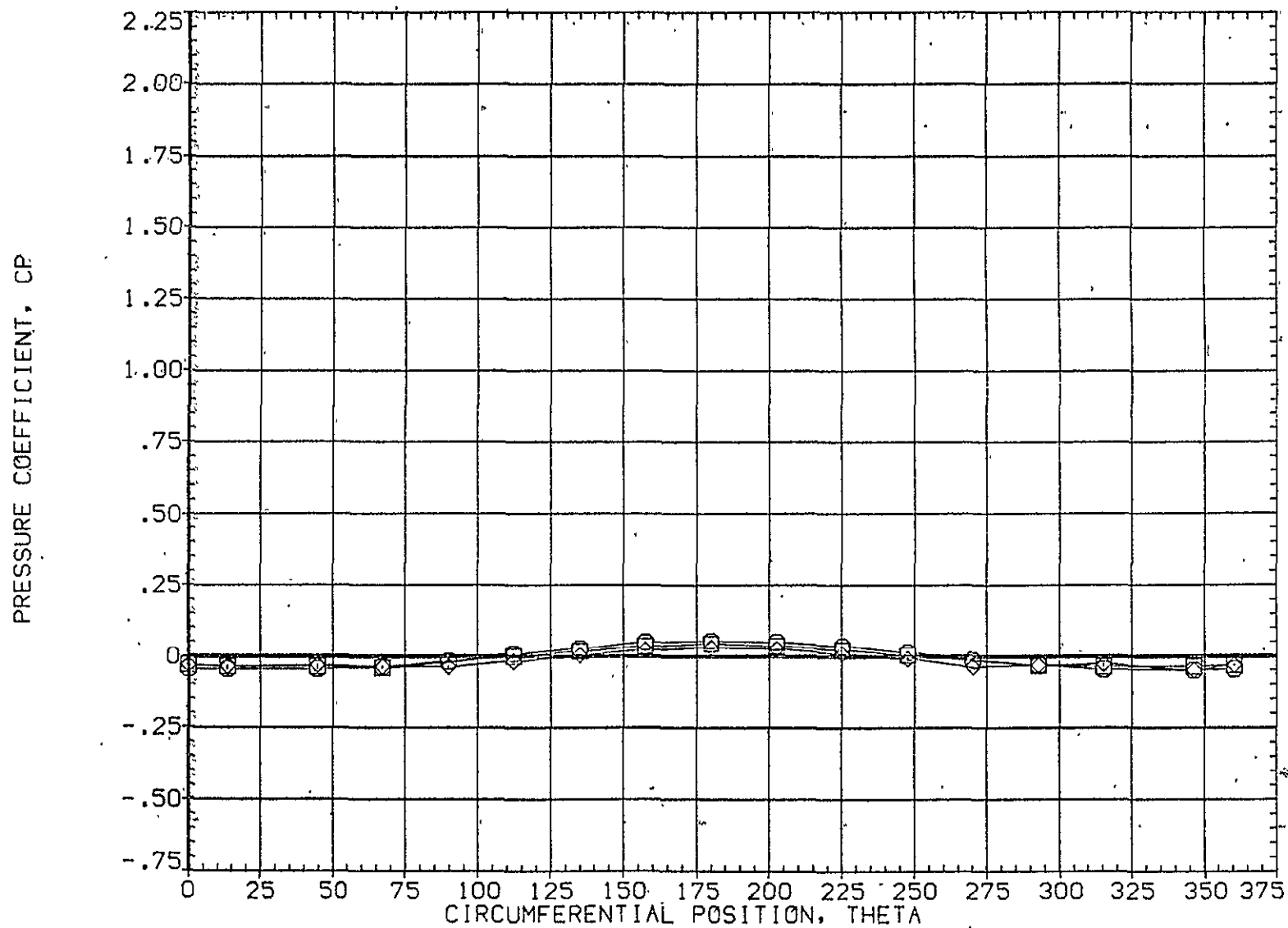


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	7.800	3.480	.000			.000
□	.735			1.000	PHI		.000
◇	.860						

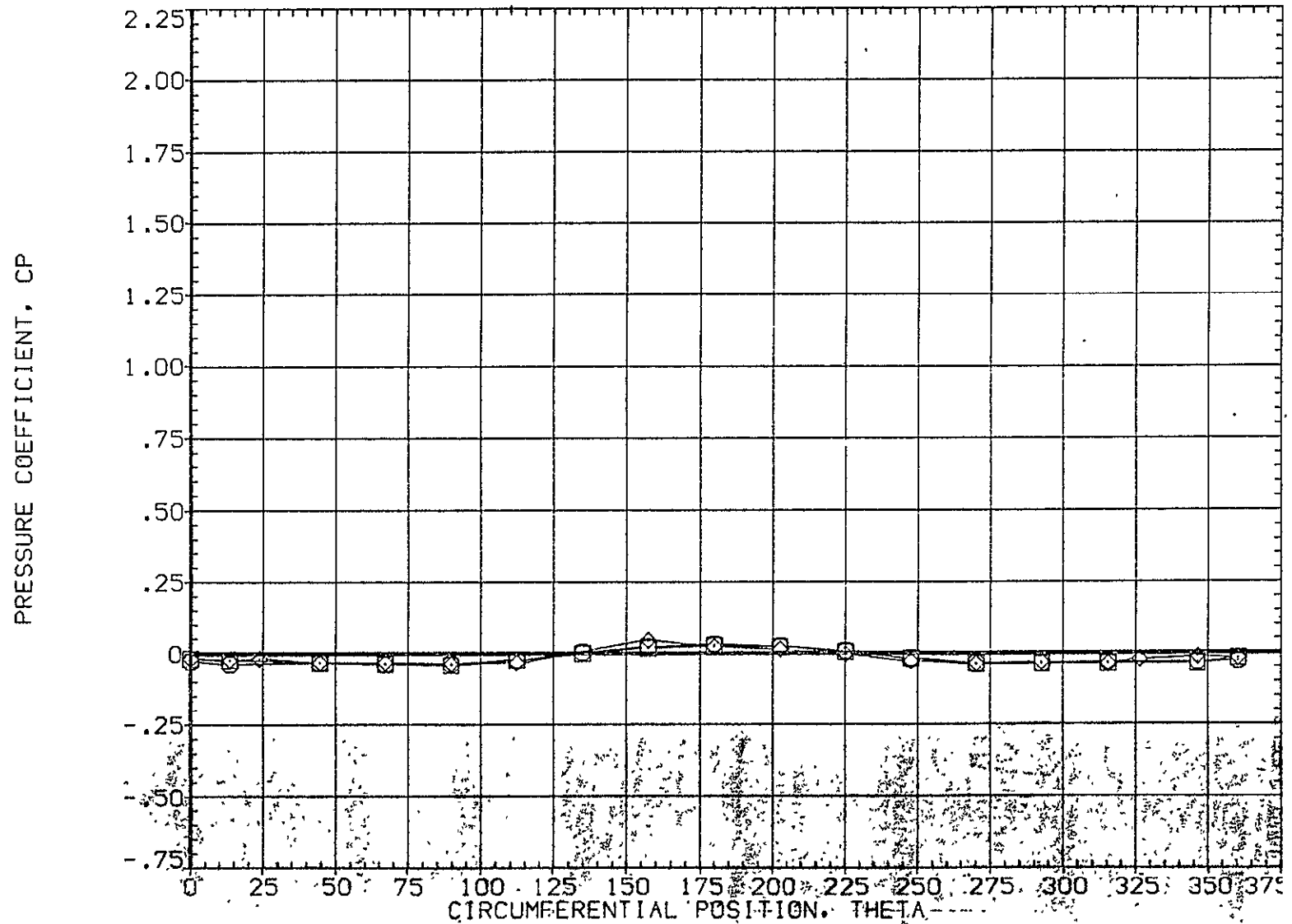


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER EI-T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

BETA

.000 OFFSET

.000

MOUNT

1.000 PHI

.000

○
□
◇

.892

7.800

3.480

.923

.954

PRESSURE COEFFICIENT, CP

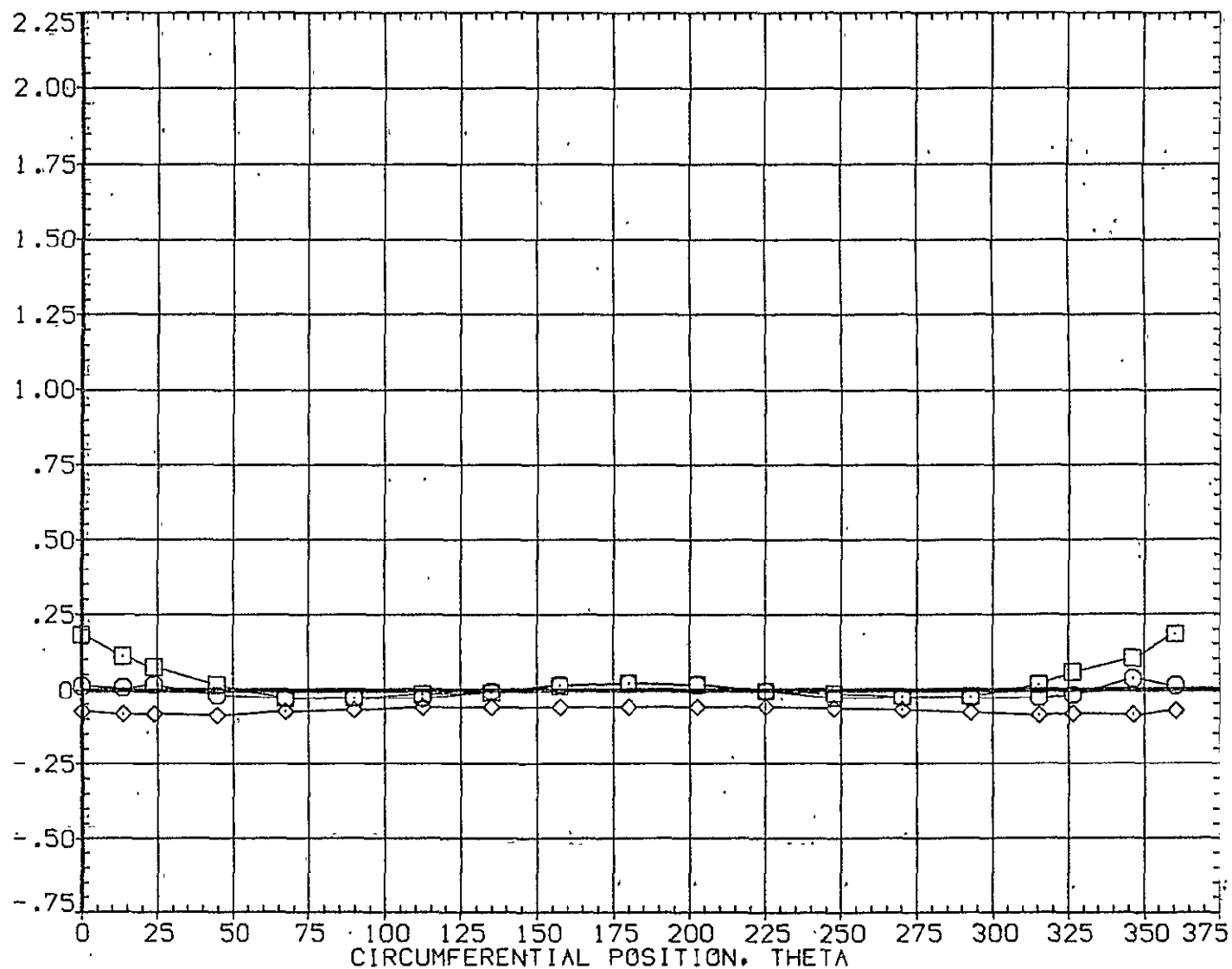


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A006)

SYMBOL	X/LB	ALPHA	MACH
○	.055	12.520	3.480
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
ANGLE	1.000	PHI	.000

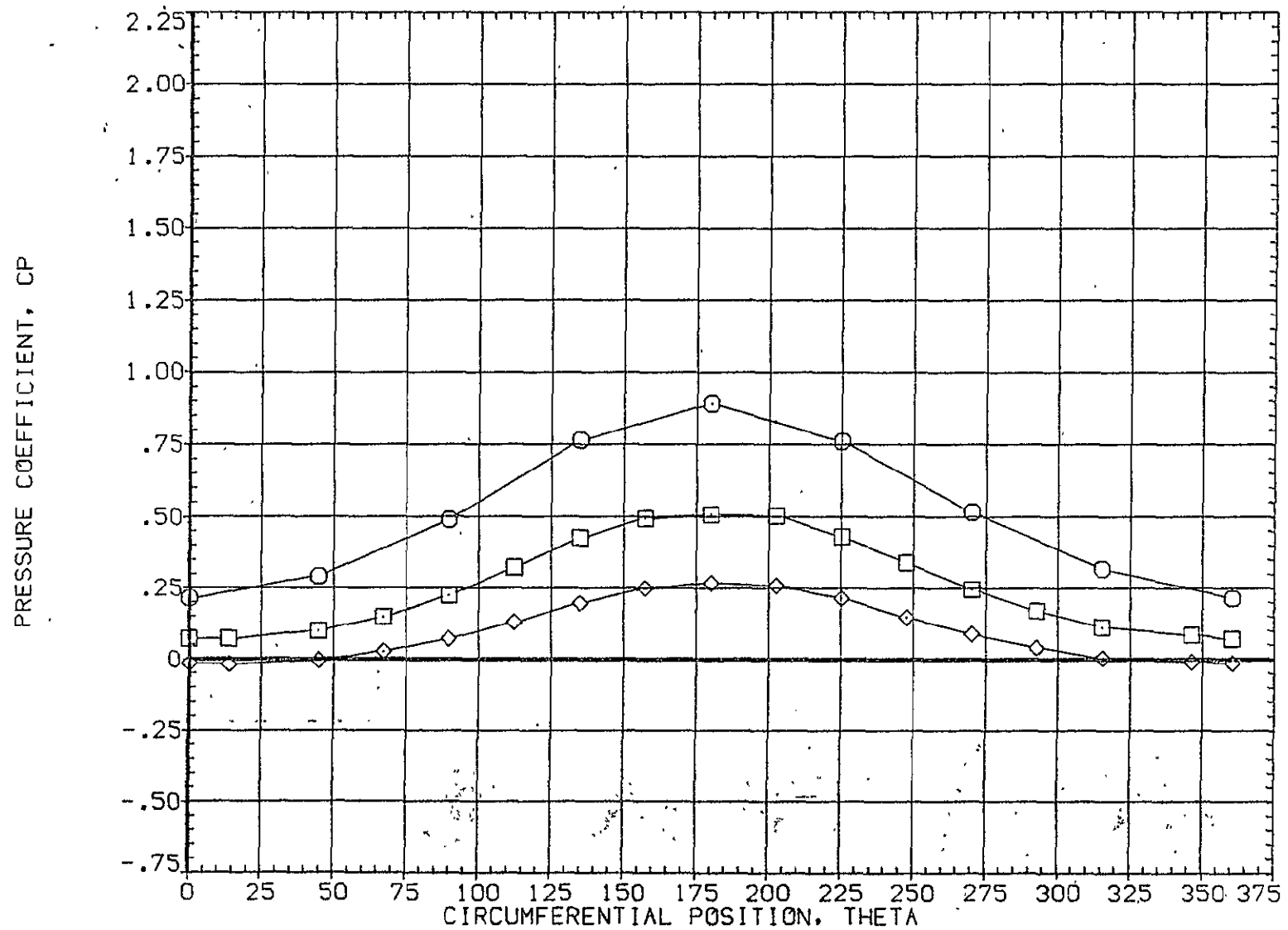


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000'
○	.216	12.520	3.480	MOUNT	.000	PHI	.000
□	.322				1.000		
◇	.518						

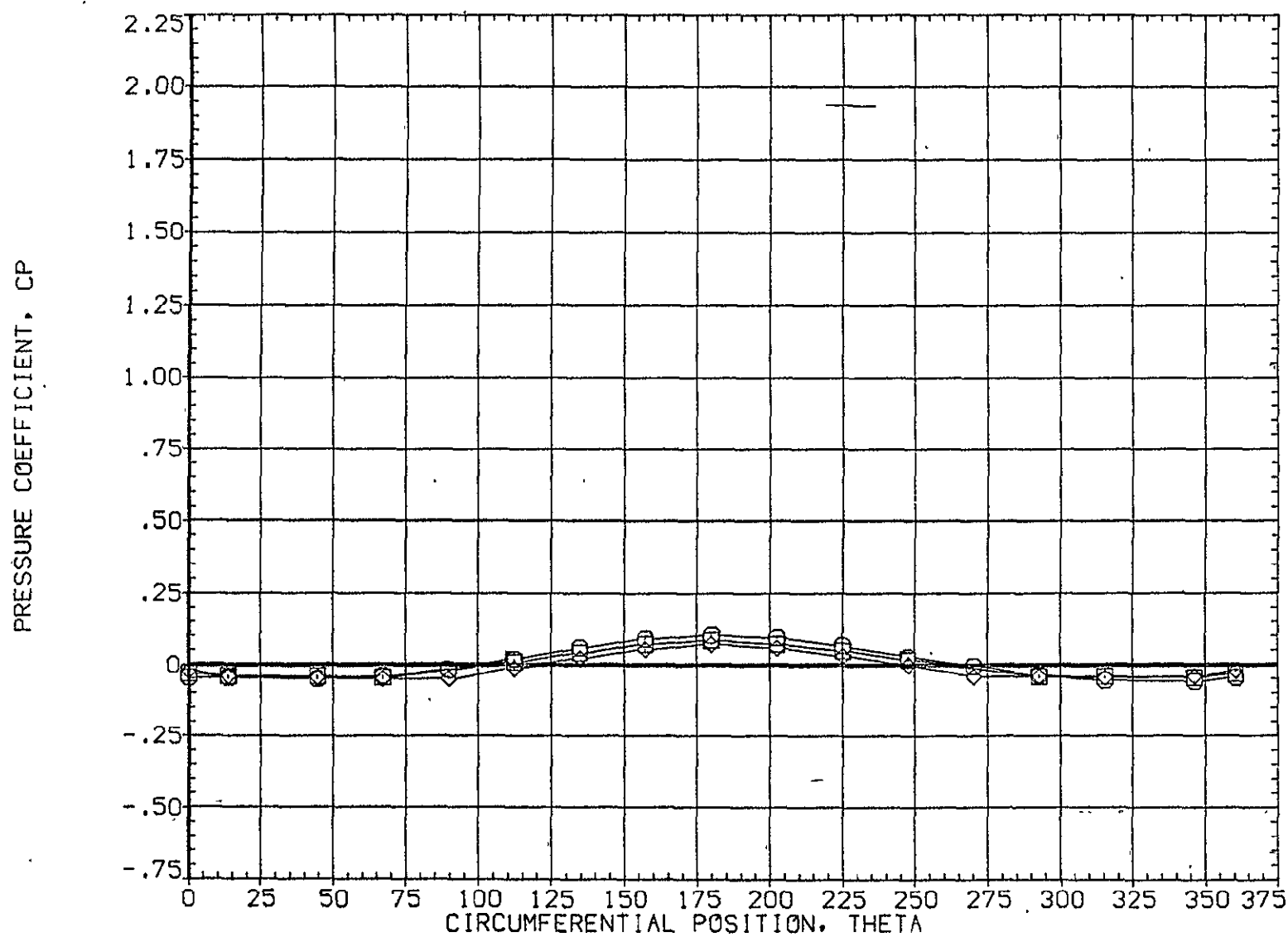


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A006)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	12.520	3.480	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	.000
◇	.860						

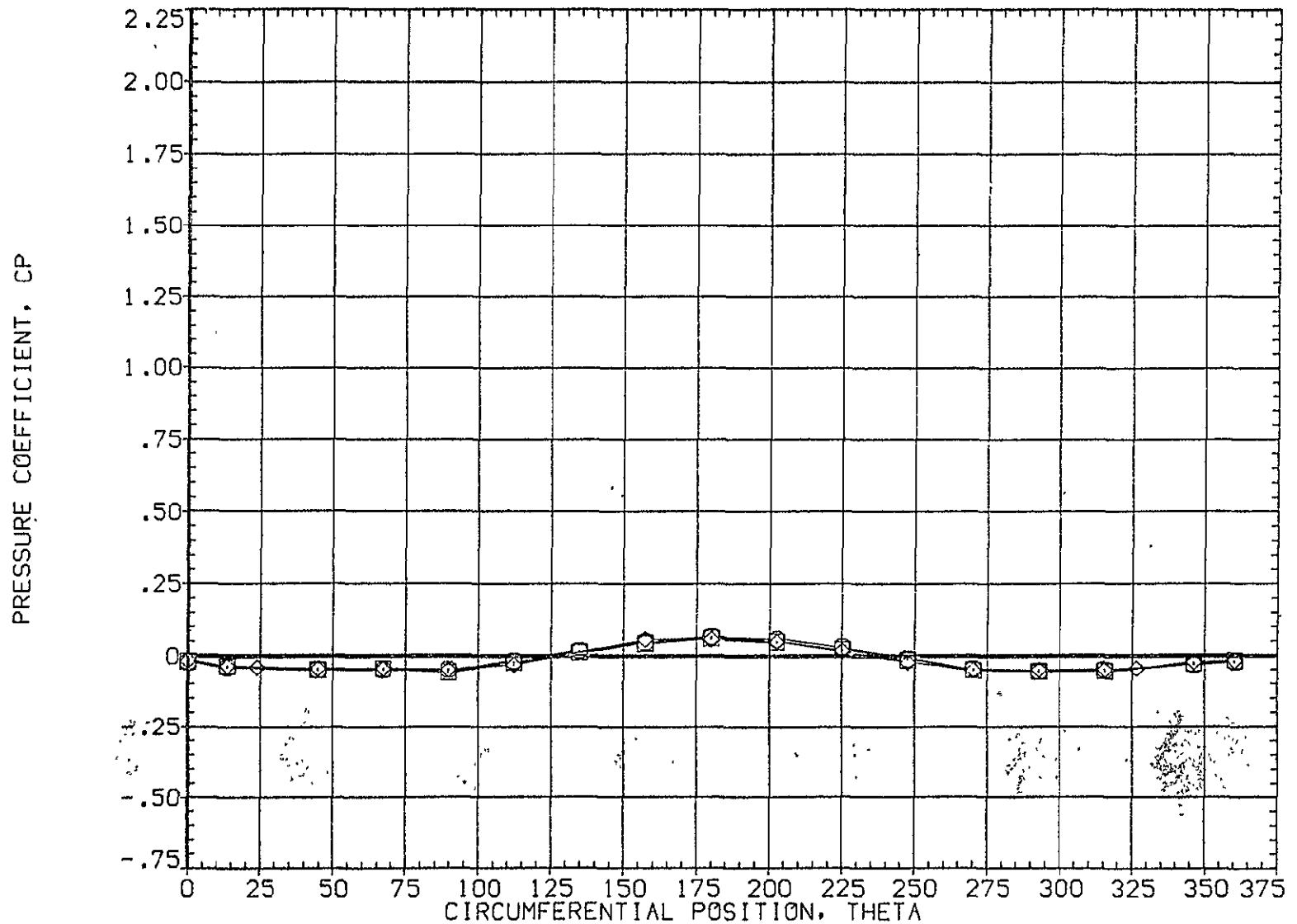


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	12.520	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI .000

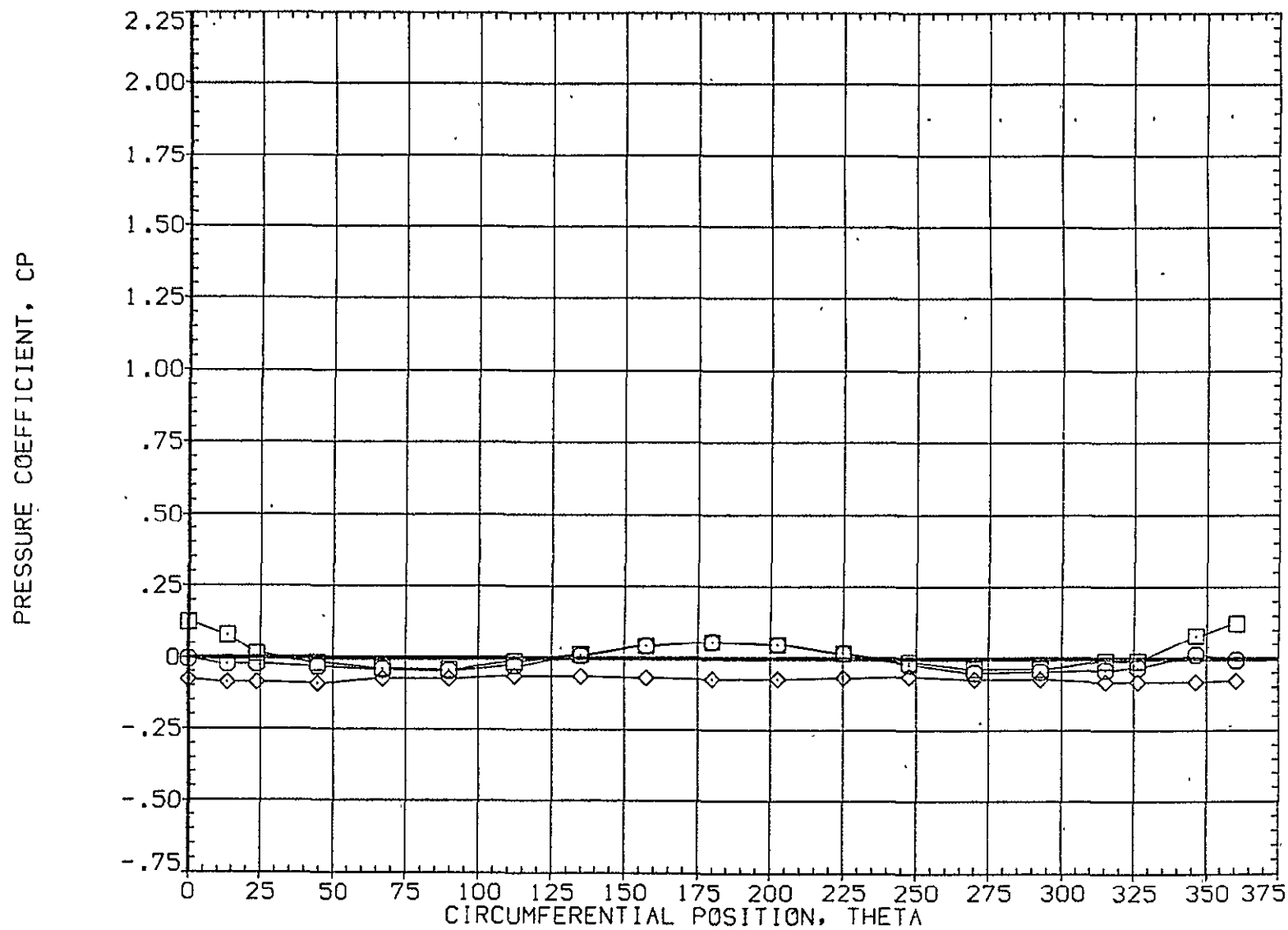


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A007)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES				
	○	.055	16.560	3.480	BETA	.000	OFFSET	20.000
	□	.108			MOUNT	1.000	PHI	.000
◇	.162							

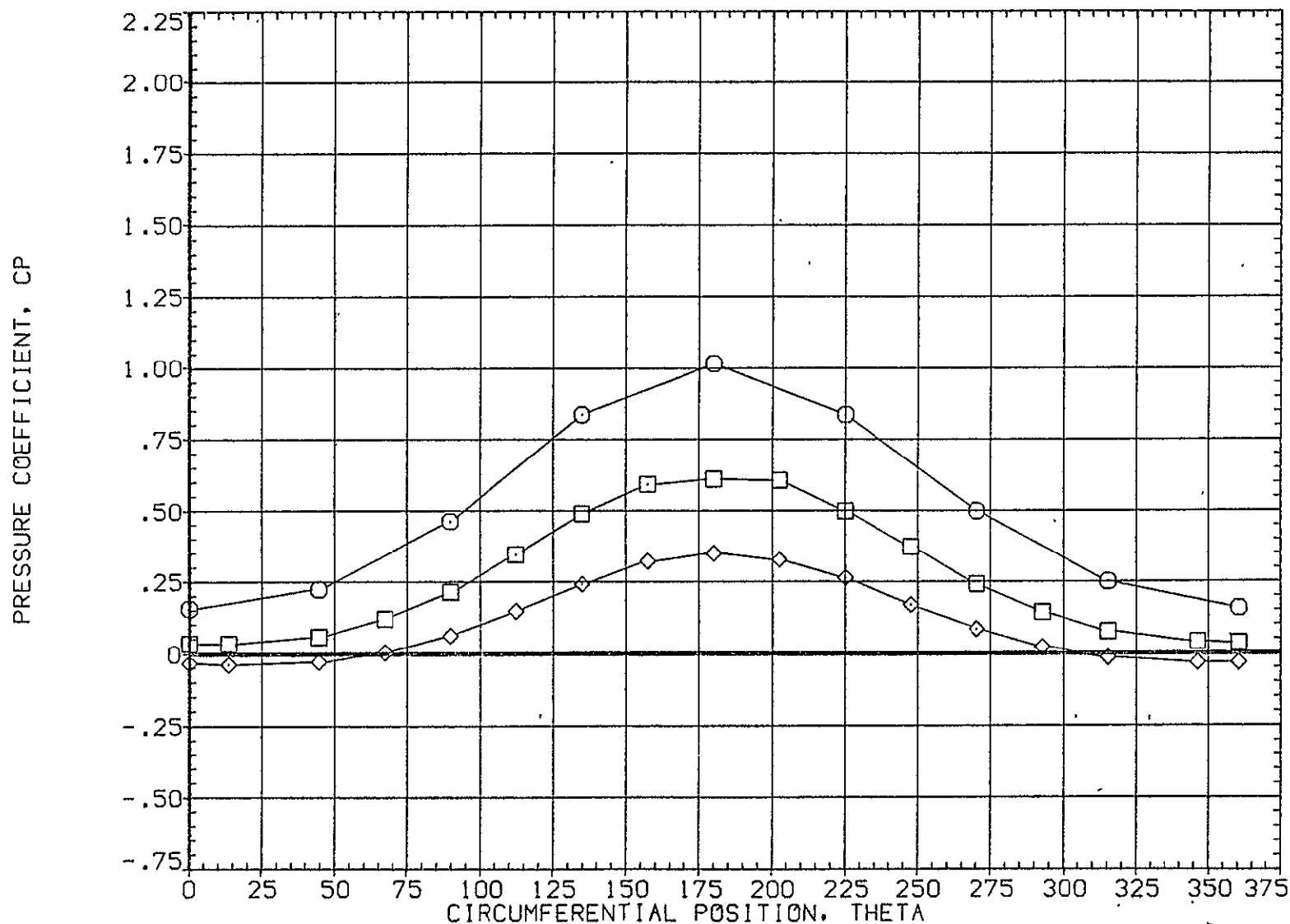


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.216	16.560	3.480	MOUNT	1.000	PHI .000
□	.322					
◇	.518					

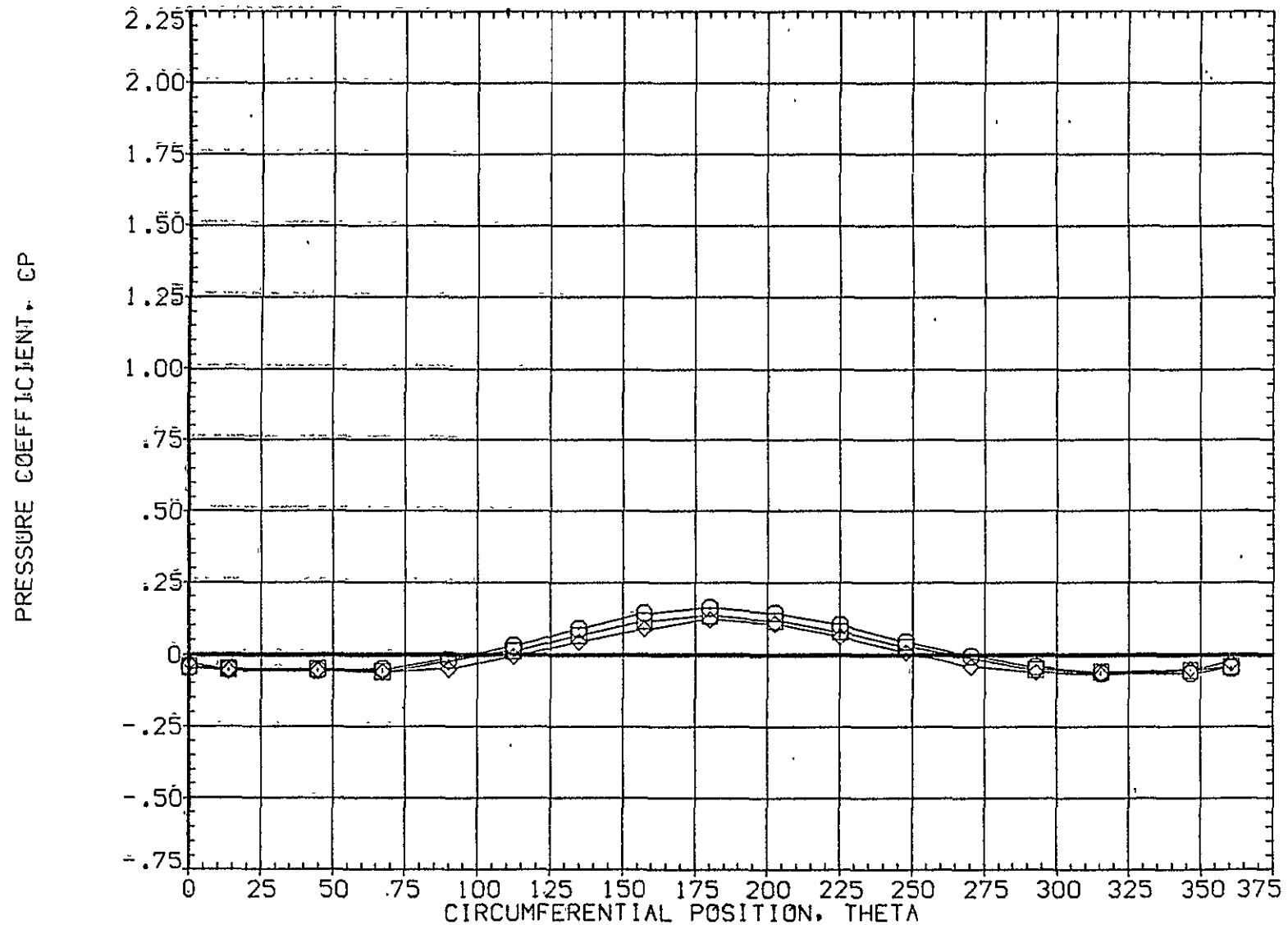


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A007)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	16.560	3.480	MOUNT	.000	PHI	.000
□	.735				1.000		
◇	.860						

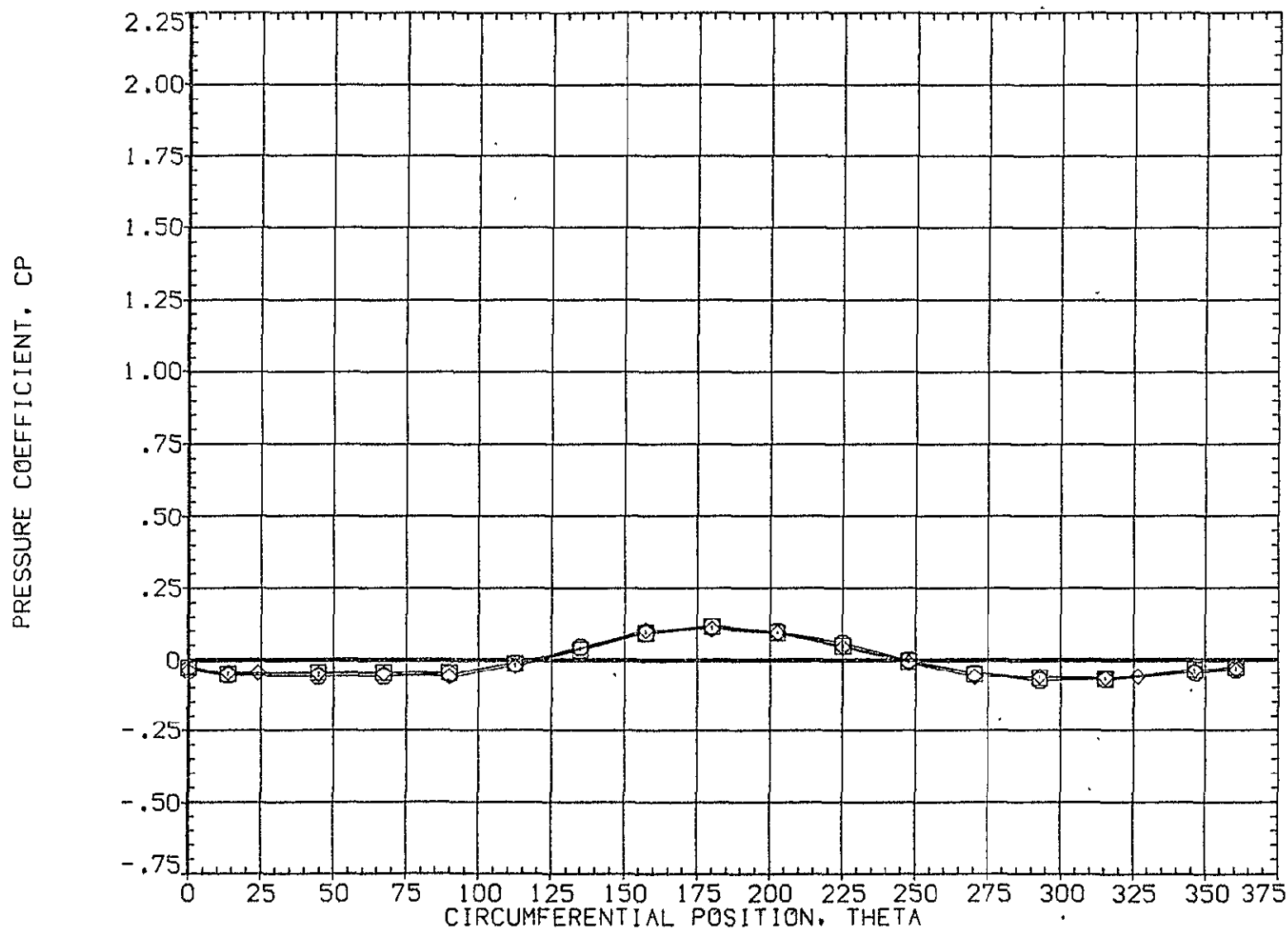


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	16.560	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	.000

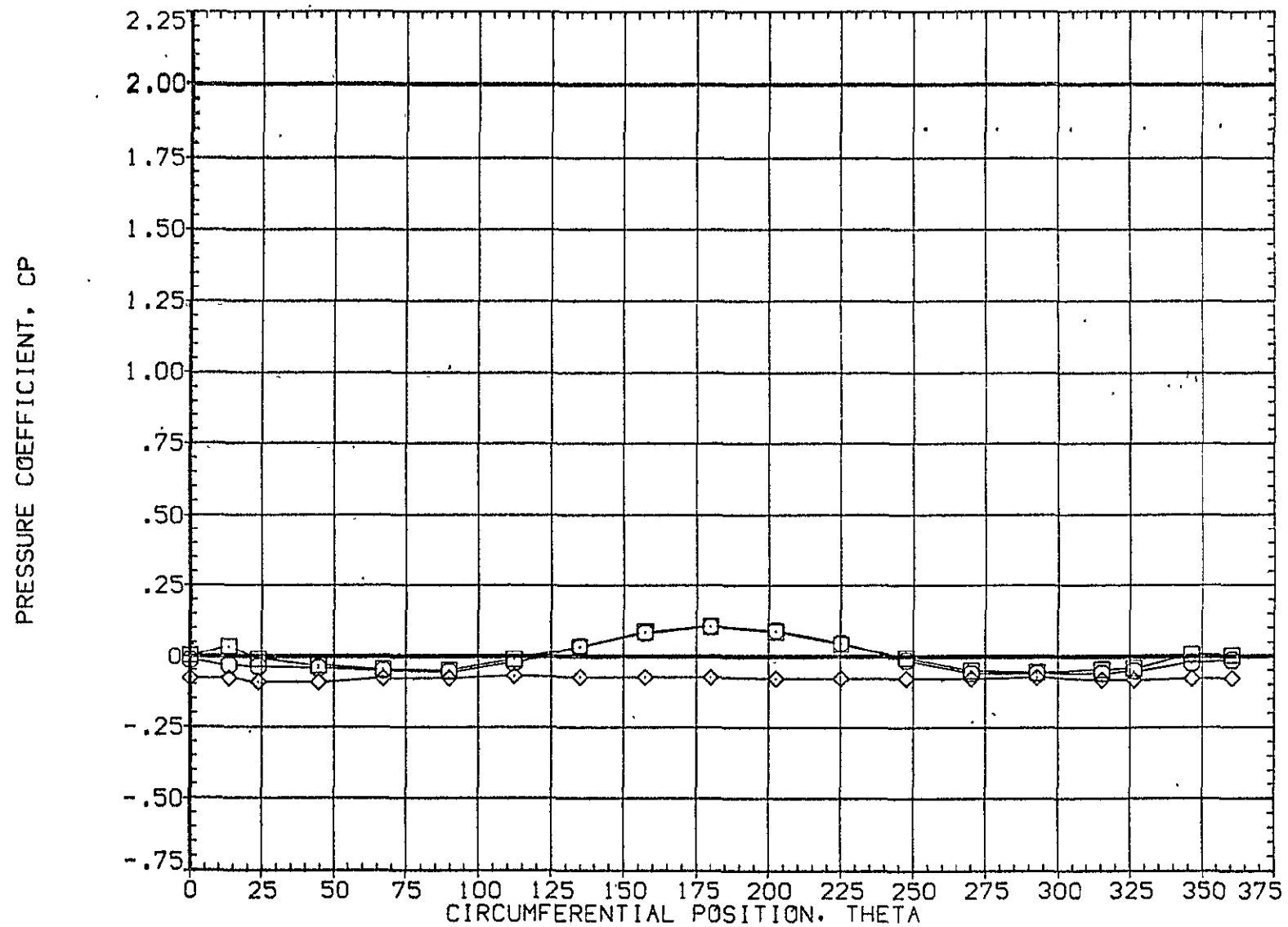


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A008)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	20.610	3.480	.000	OFFSET 20.000
□	.108			1.000	PHI .000
◇	.162				

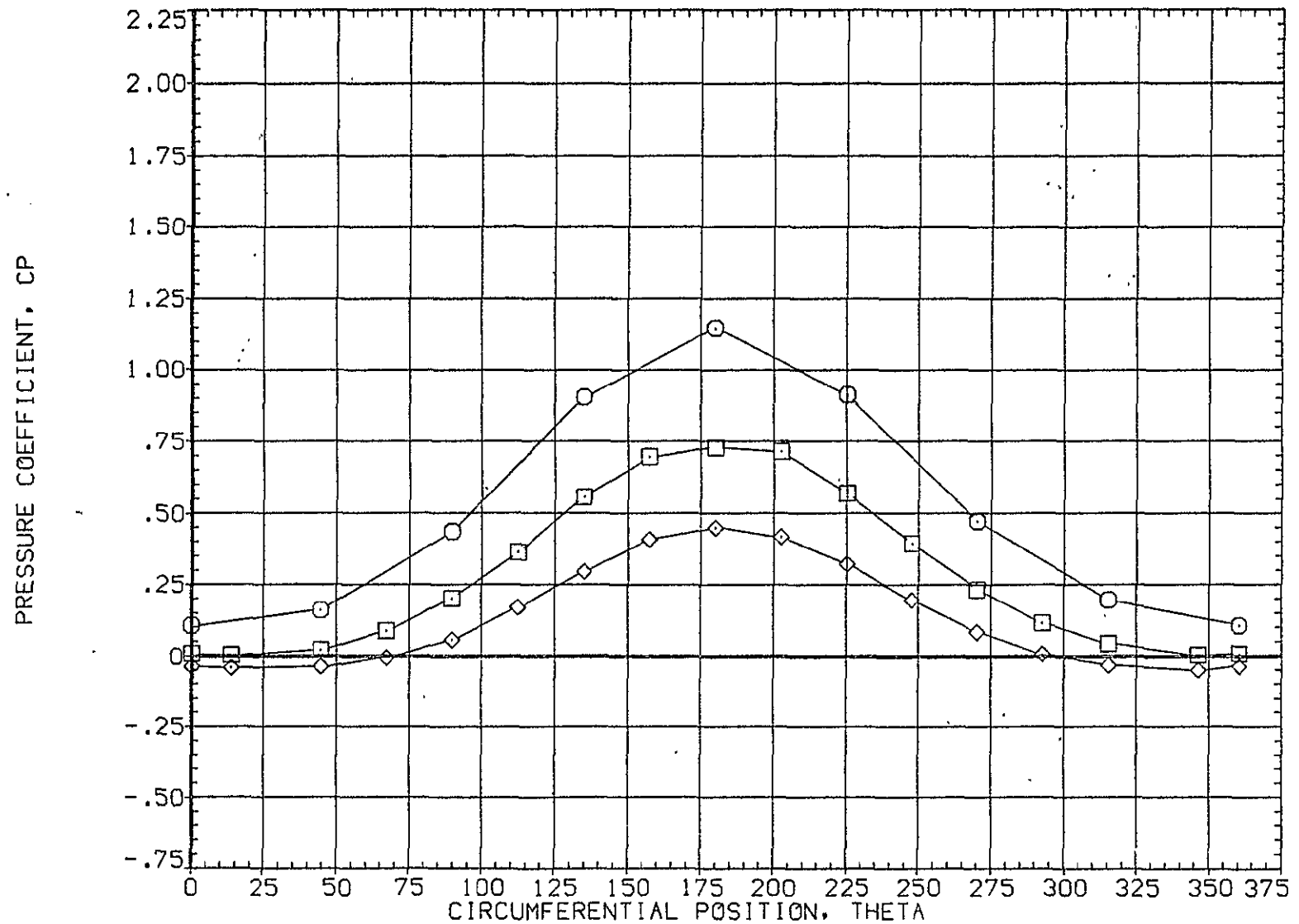


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.216	20.610	3.480	MOUNT	1.000	PHI
□	.322					.000
◇	.518					

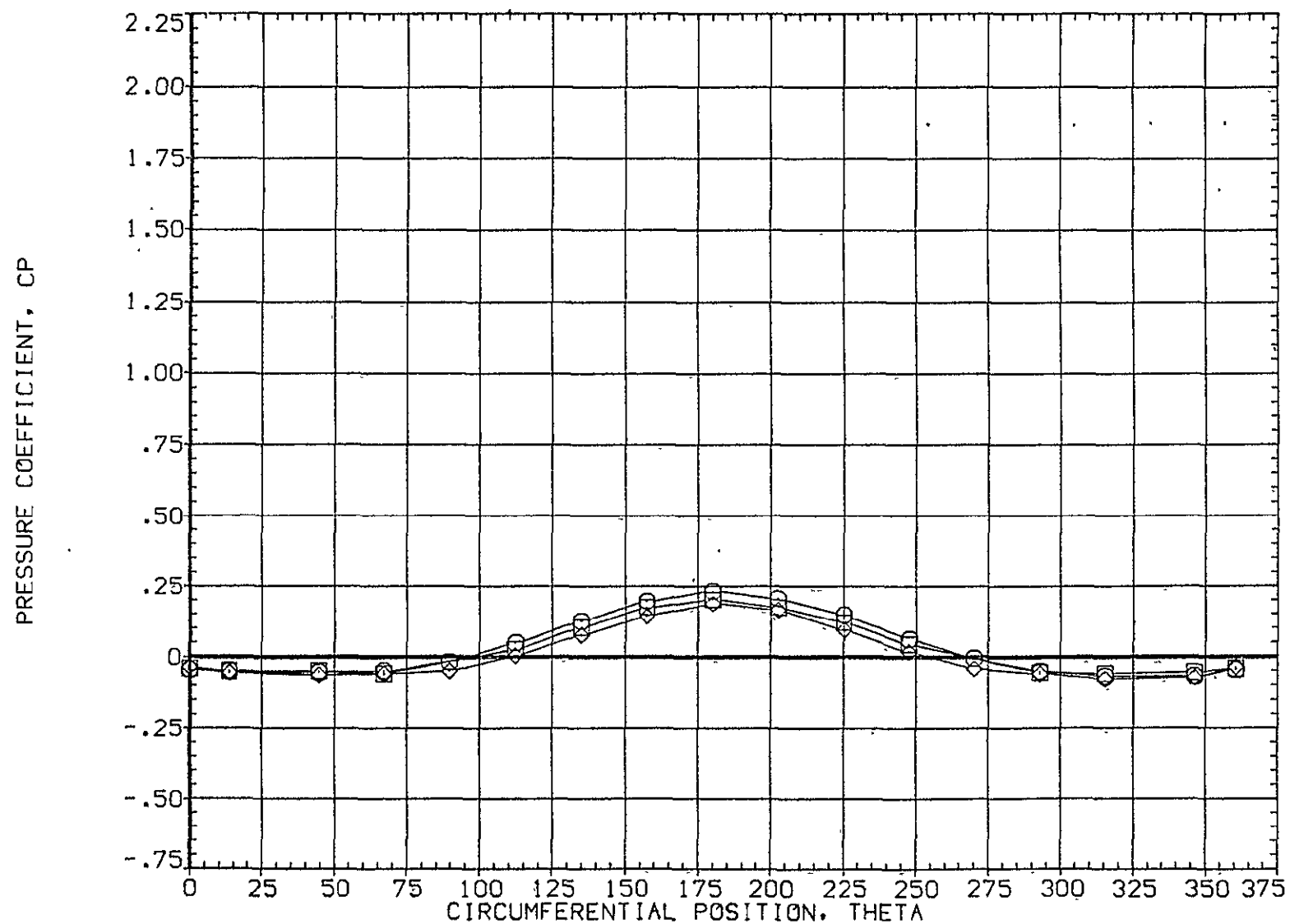


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A008)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	20.610	3.480	MOUNT	.000	PHI	.000
□	.735				1.000		
◇	.860						

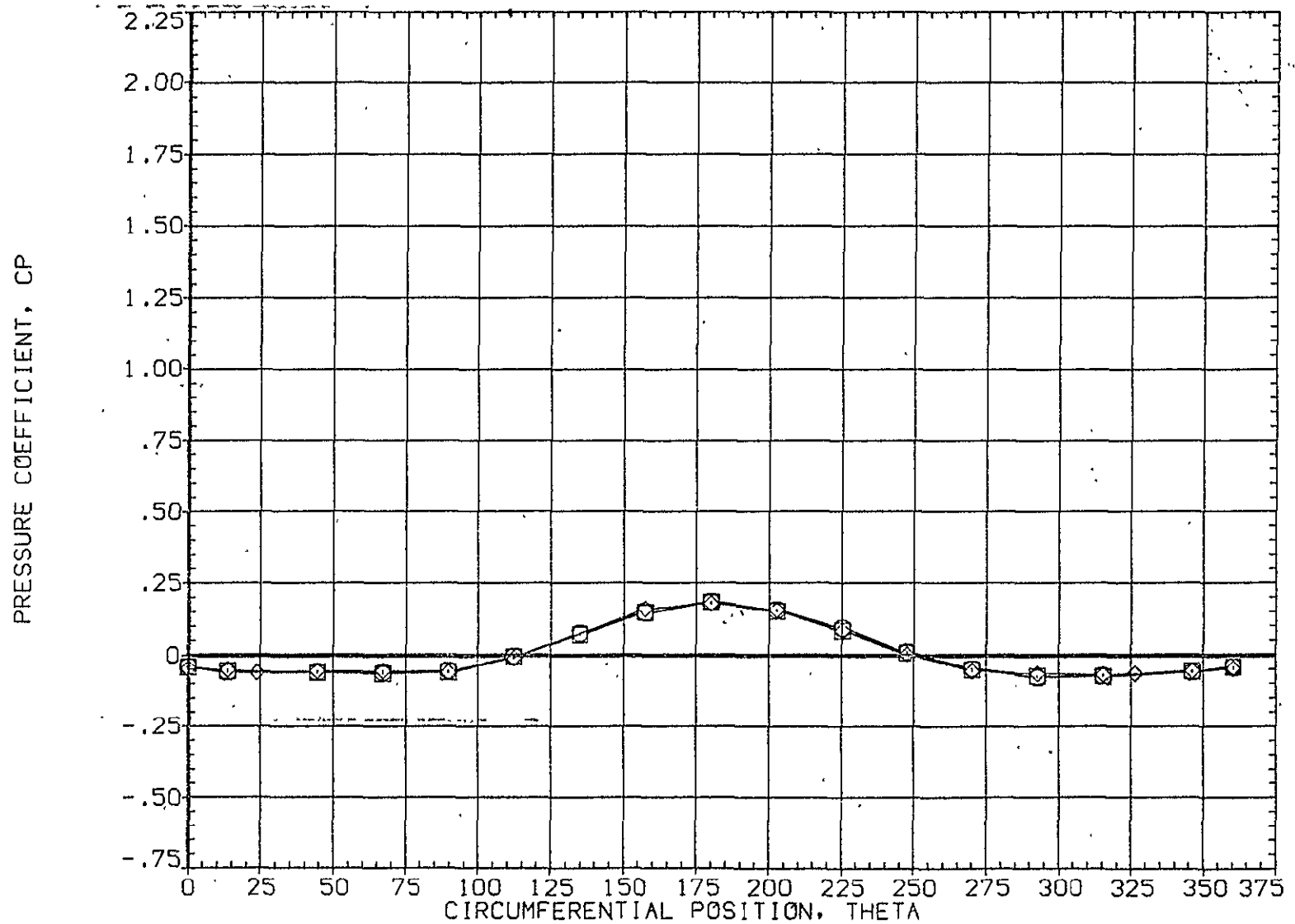


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	20.610	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI .000

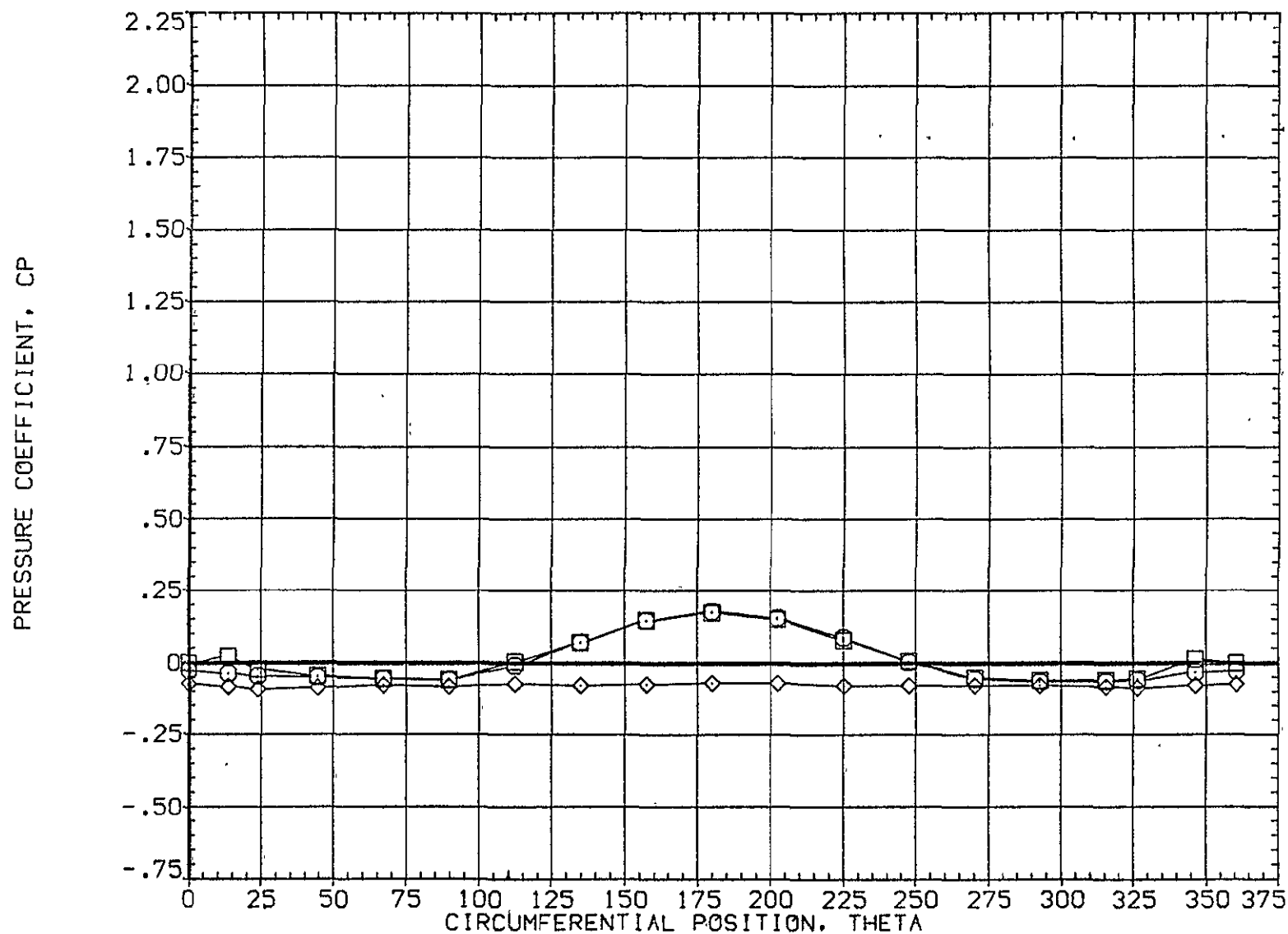


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A009)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	24.660	3.480	MOUNT	.000	OFFSET	20.000
□	.108				1.000	PHI	.000
◇	.162						

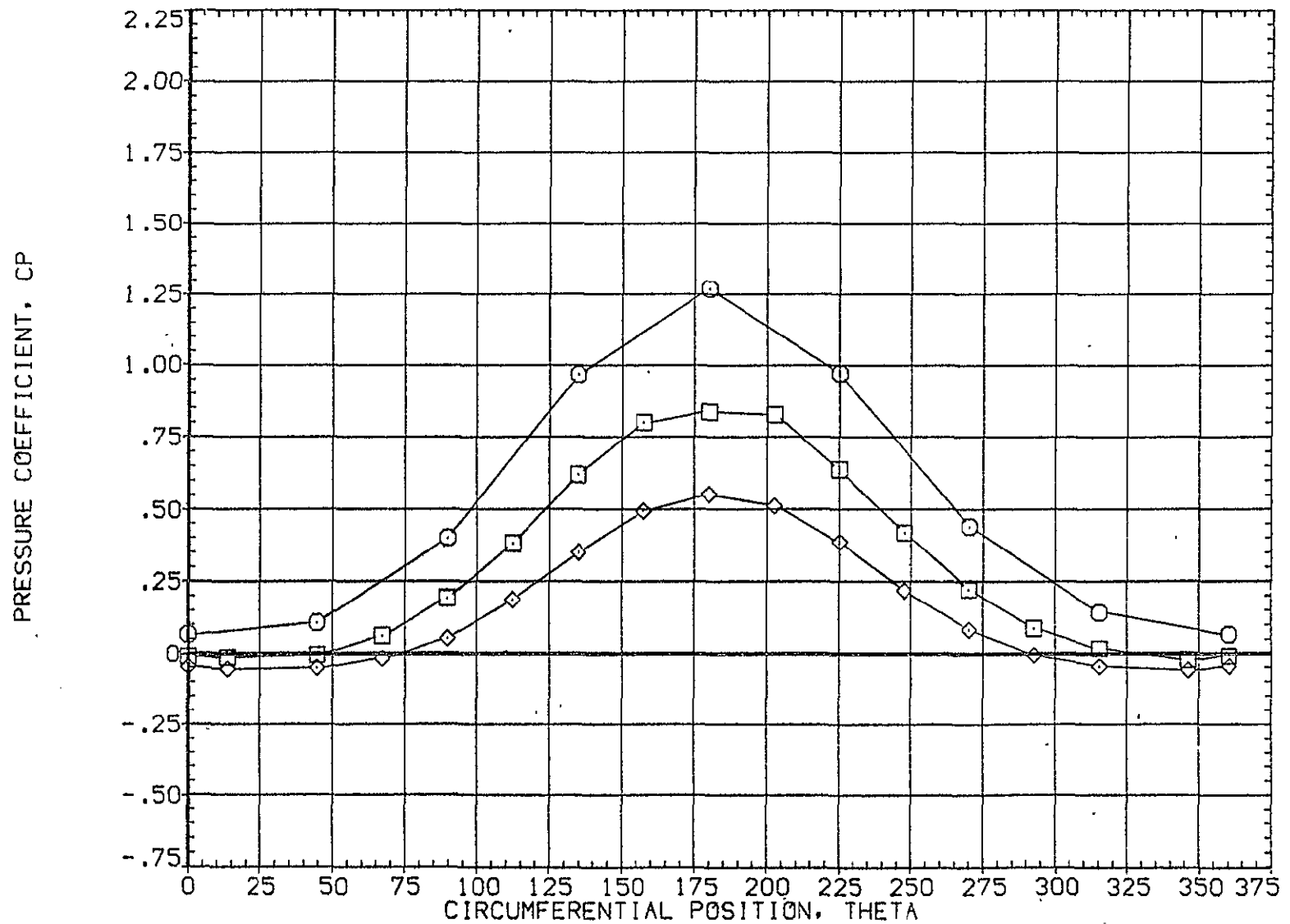


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.216	24.660	3.480	.000	PHI	.000
□	.322			1.000		
◇	.518					

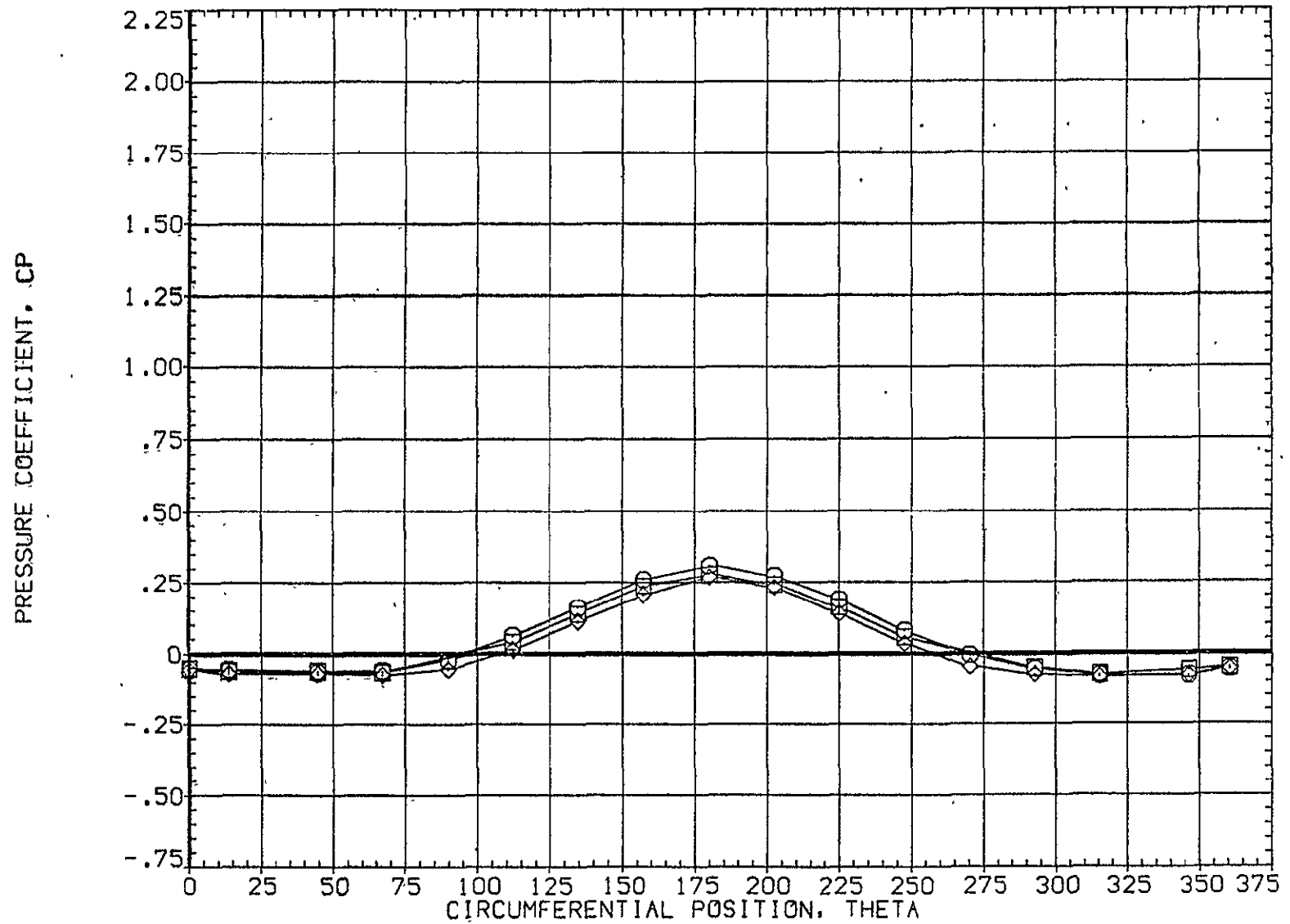


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A009)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.810	24.660	3.480	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	.000
◇	.860						

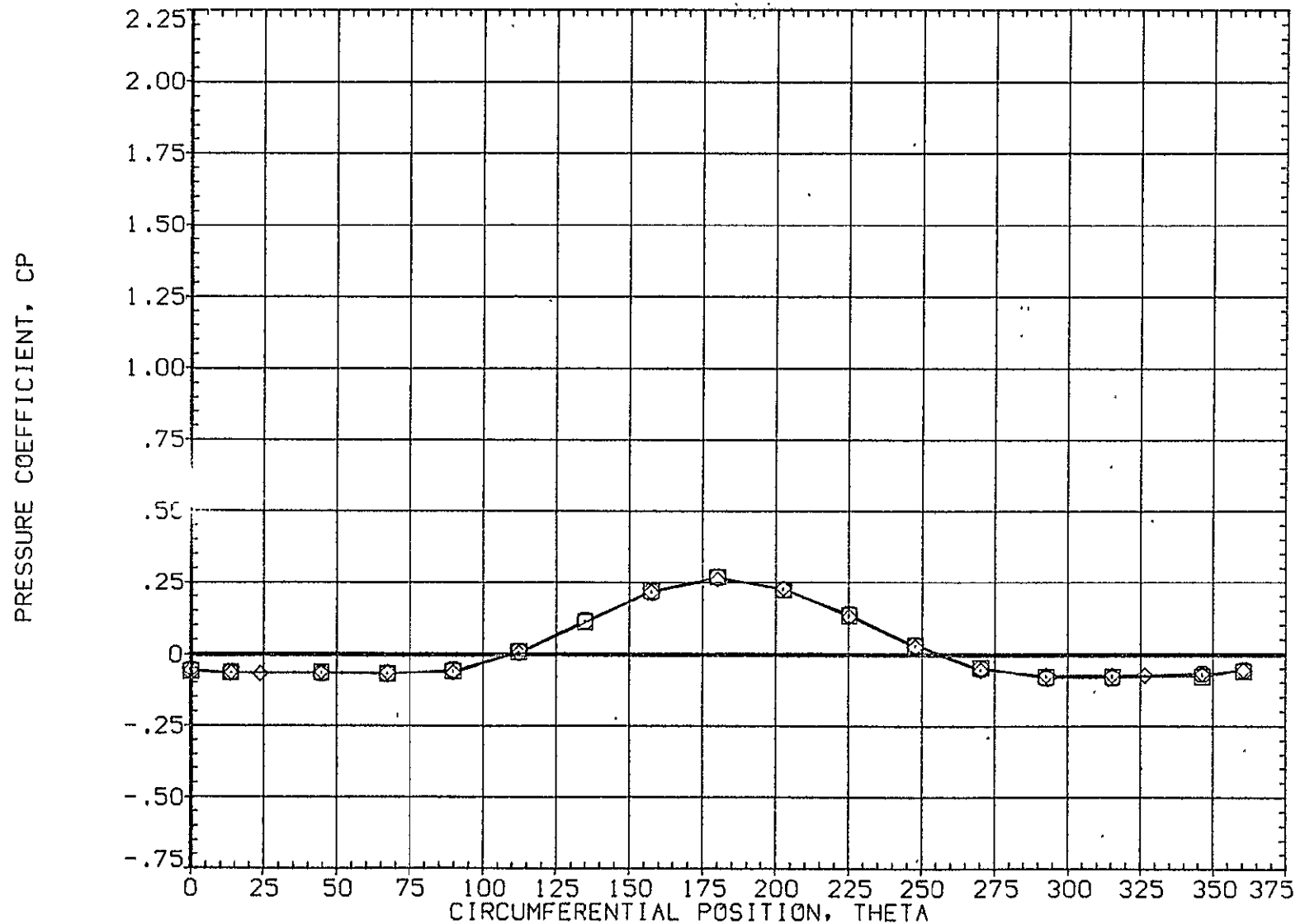


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

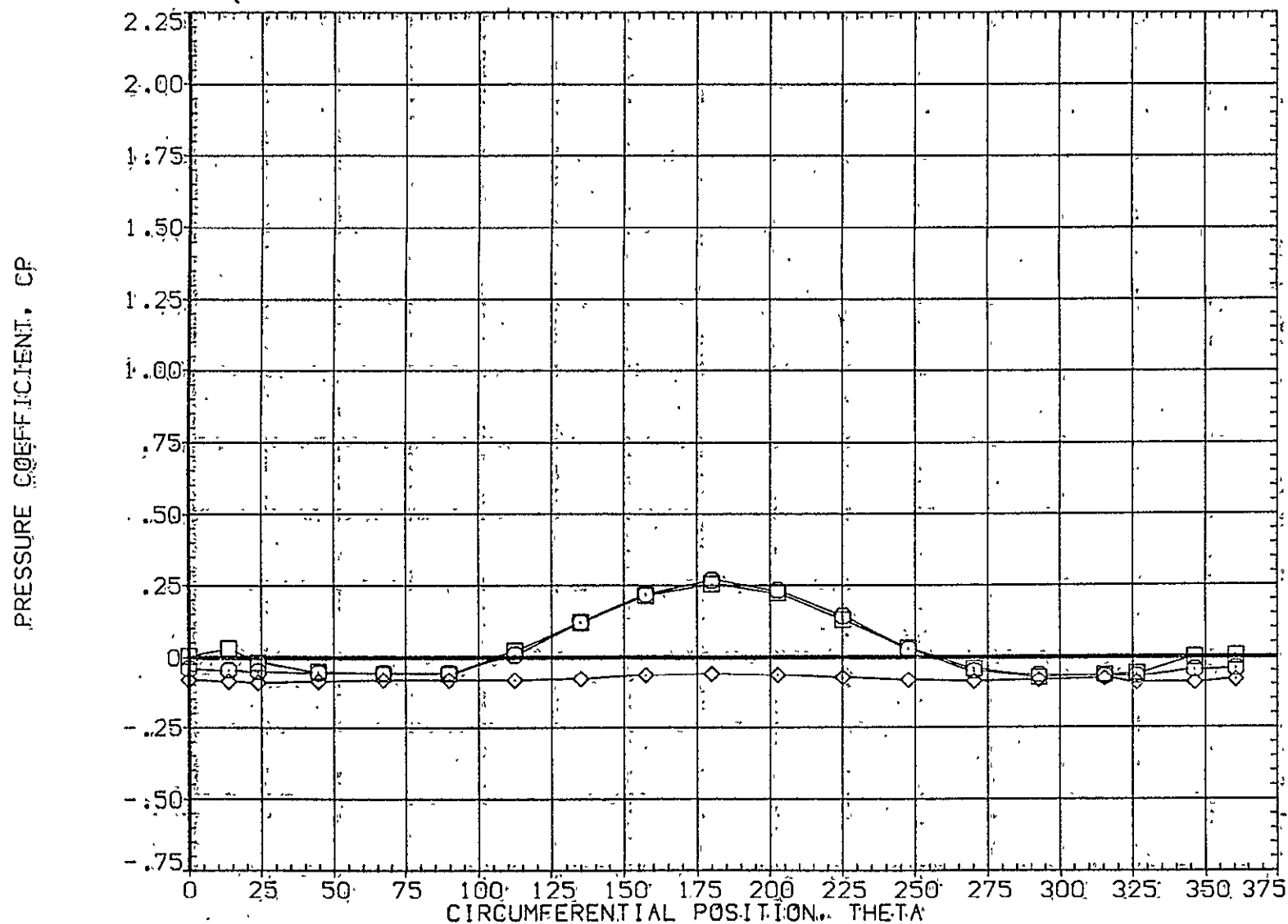
SYMBOL
○
□
◇X/LB: .892
.923
.954
ALPHA 24.660
MACH: 3.480PARAMETRIC VALUES
BETA .000
MOUNT 1.000
OFFSET 20.000
PHI .000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A010)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	28.700	3.480	.000	OFFSET 20,000
□	.108			1.000	PHI .000
◇	.162				

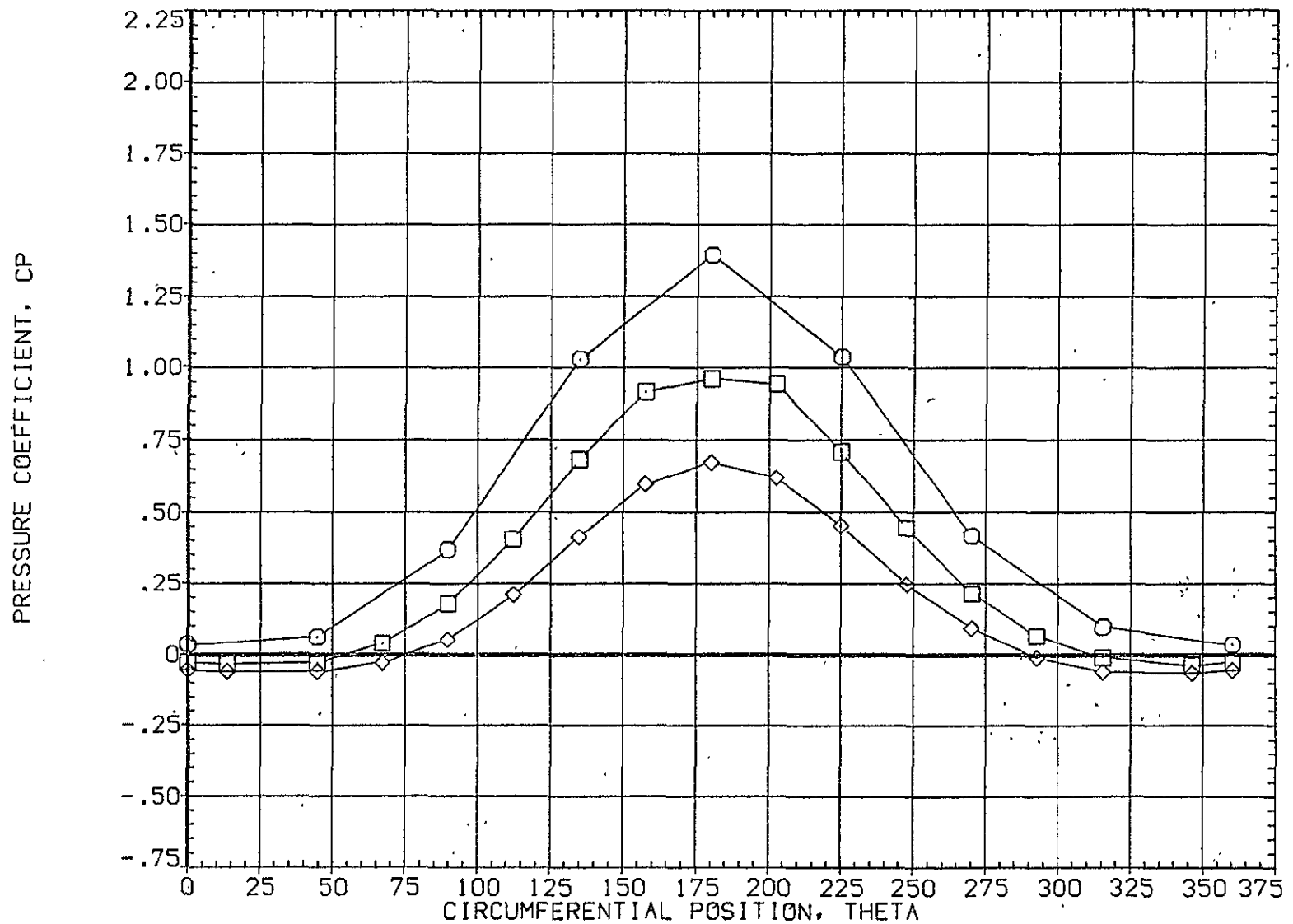


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL.	X/LB.	ALPHA.	MACH.
○	.216	28.700.	3.480.
□	.322		
◇	.518		

PARAMETRIC VALUES.			
BETA:	.000	OFFSET:	20.000.
MOUNT	1.000.	PHI:	.000

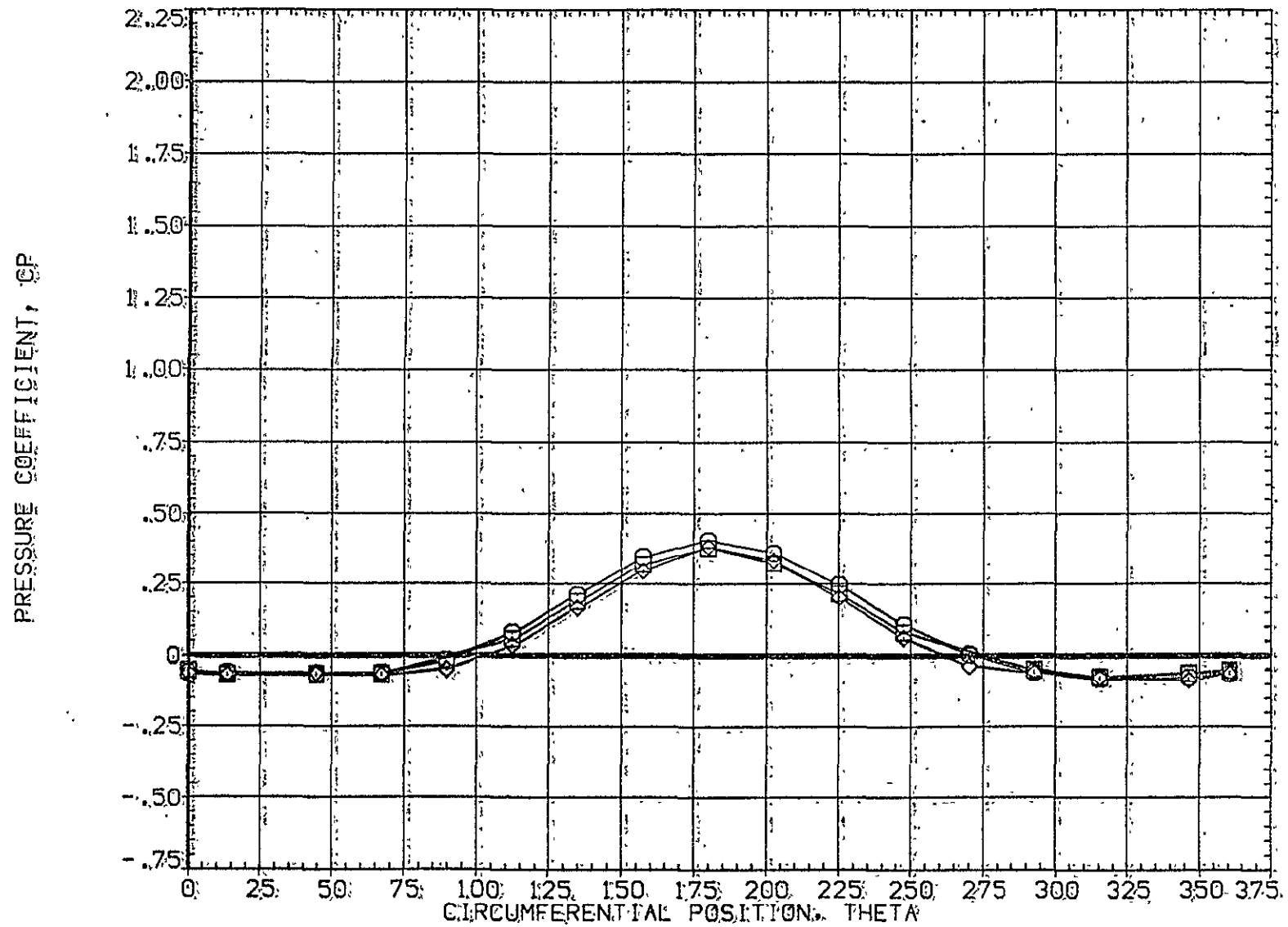


FIG. 5. CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A010)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	28.700	3.480	MOUNT	.000	PHI	.000
□	.735				1.000		
◇	.860						

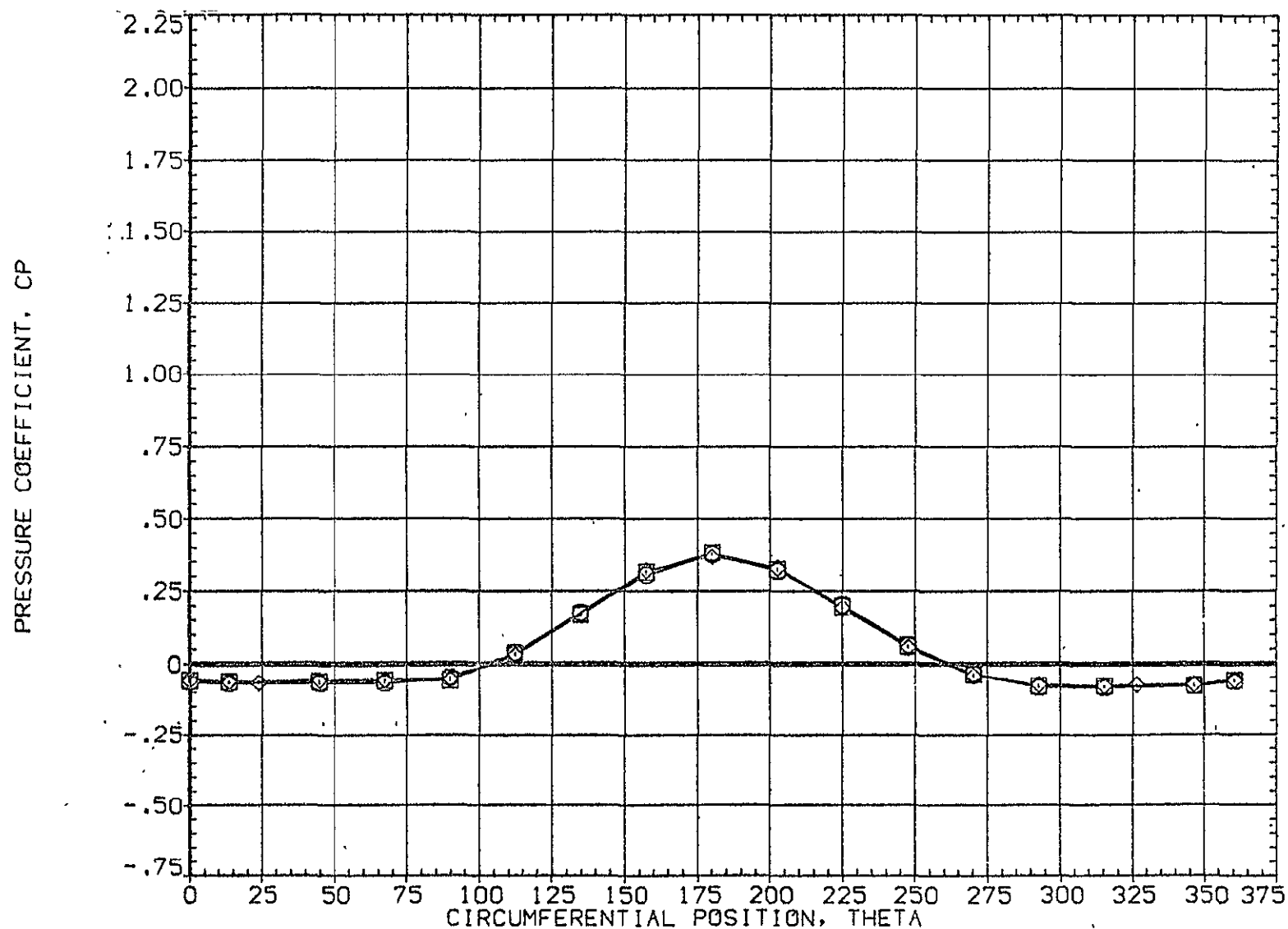


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 .000
○	.892	28.700	3.480			
□	.923					
◇	.954					

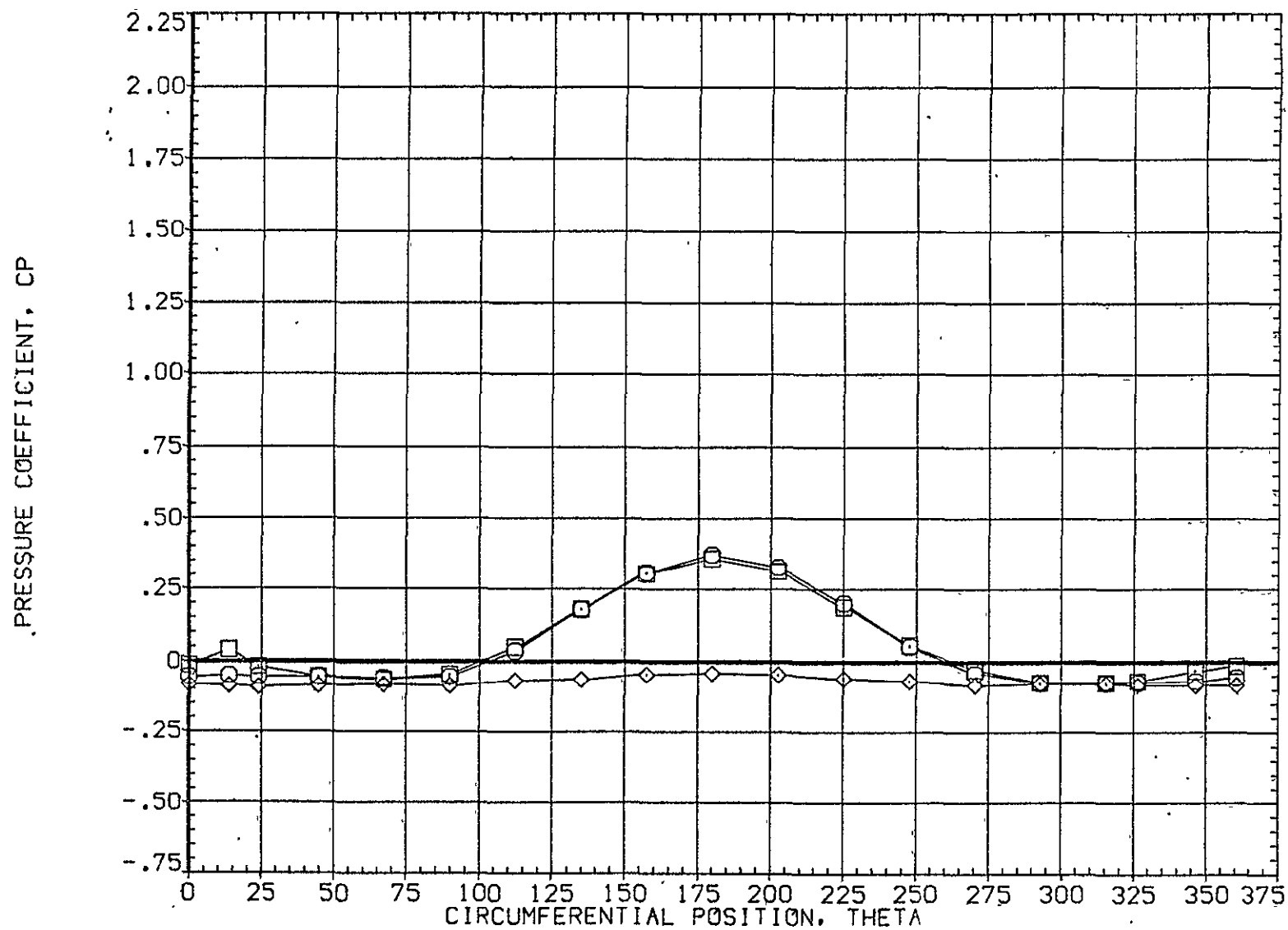


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A081)

SYMBOL
○
□
◇X/LB
.055
.108
.162ALPHA
-8.380MACH
3.480BETA
MOUNT

PARAMETRIC VALUES

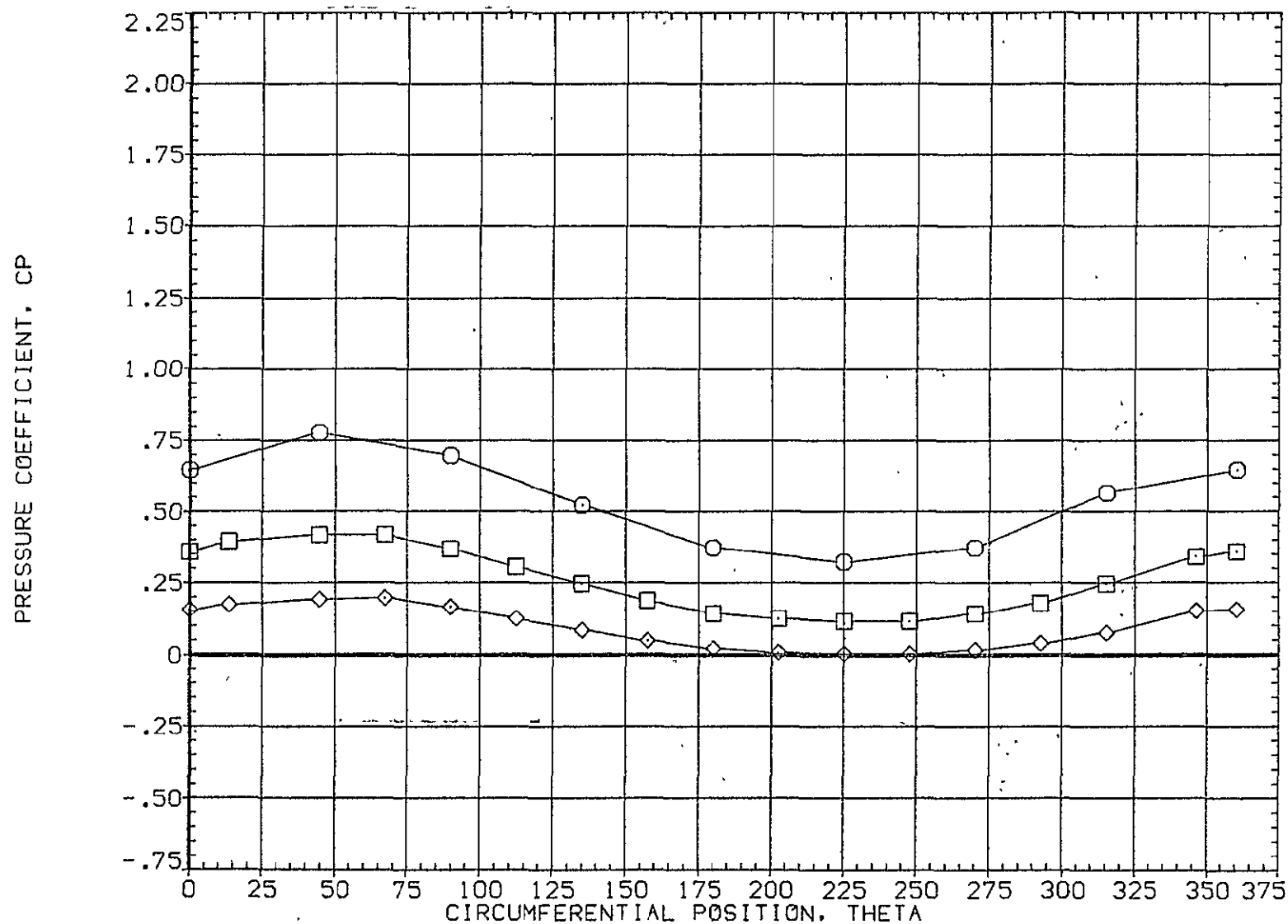
.000 OFFSET
1.000 PHI.000
45.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA.	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 45.000
○	.216	-8.380	3.480			
□	.322					
◇	.518					

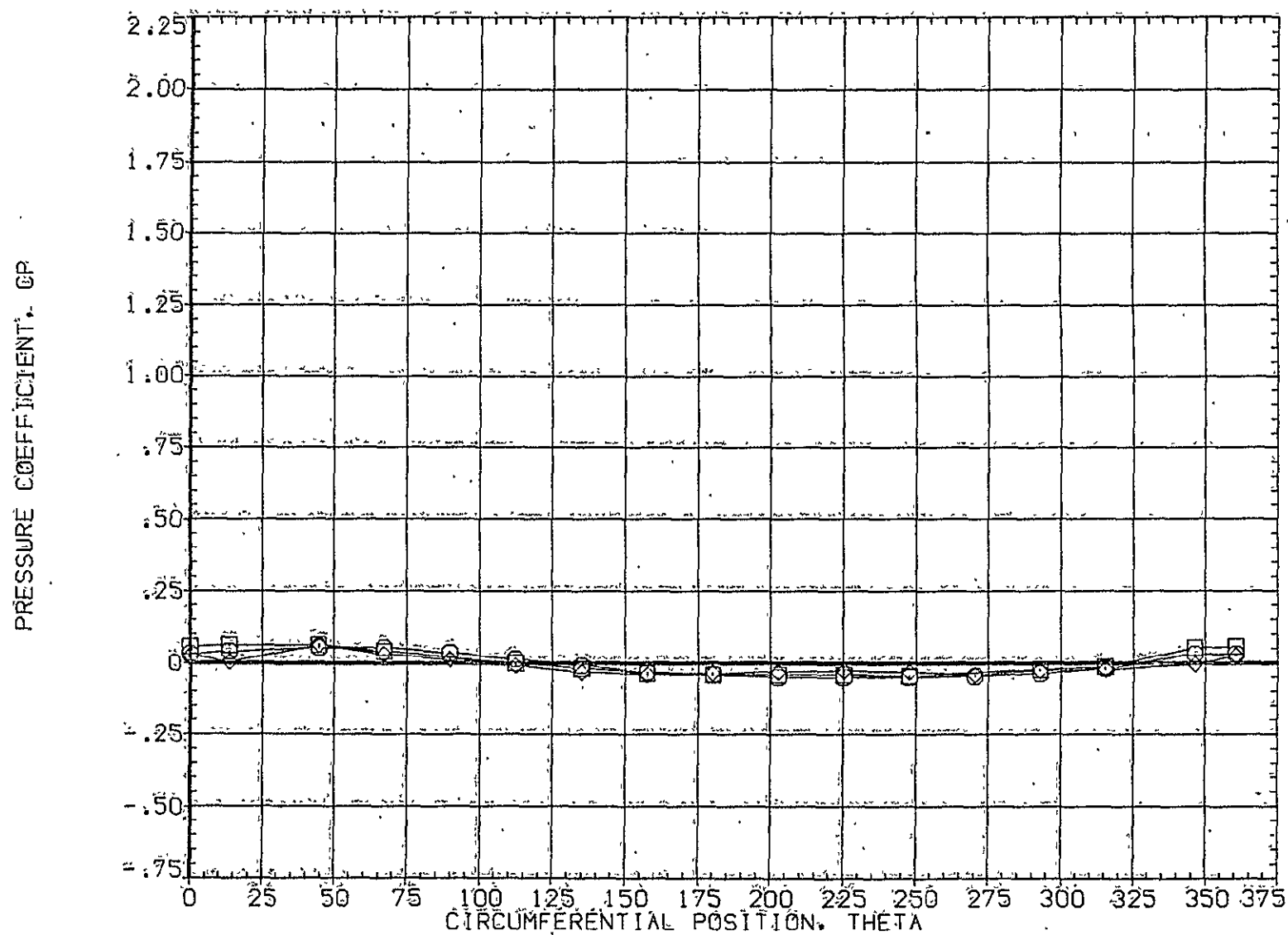


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A081)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.610	-8.380	3.480	.000		.000	
□	.735			1.000			45.000
◇	.860						

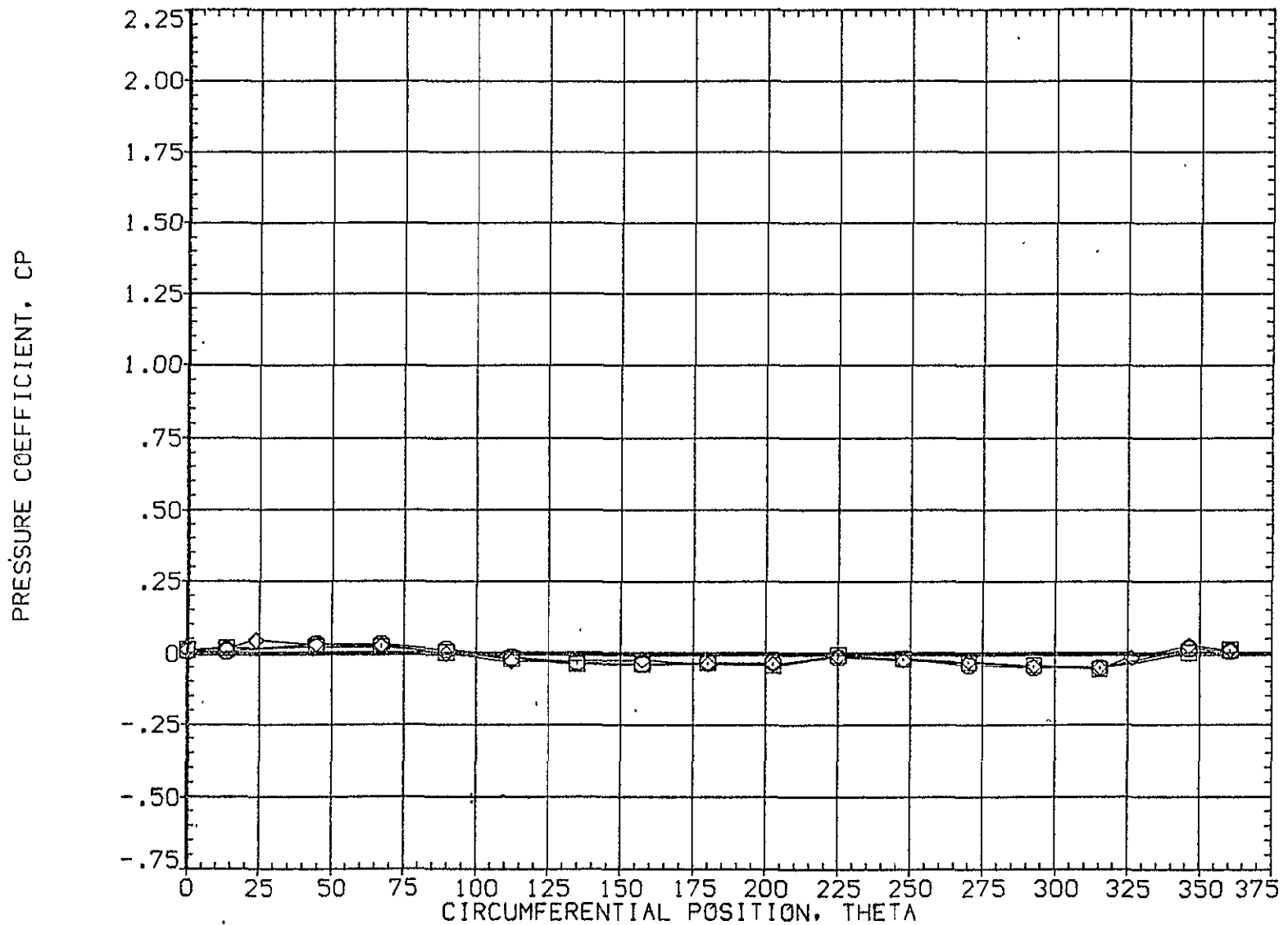


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	-8.380	3.480	MOUNT	.000		.000
□	.923				1.000	PHI	45.000
◇	.954						

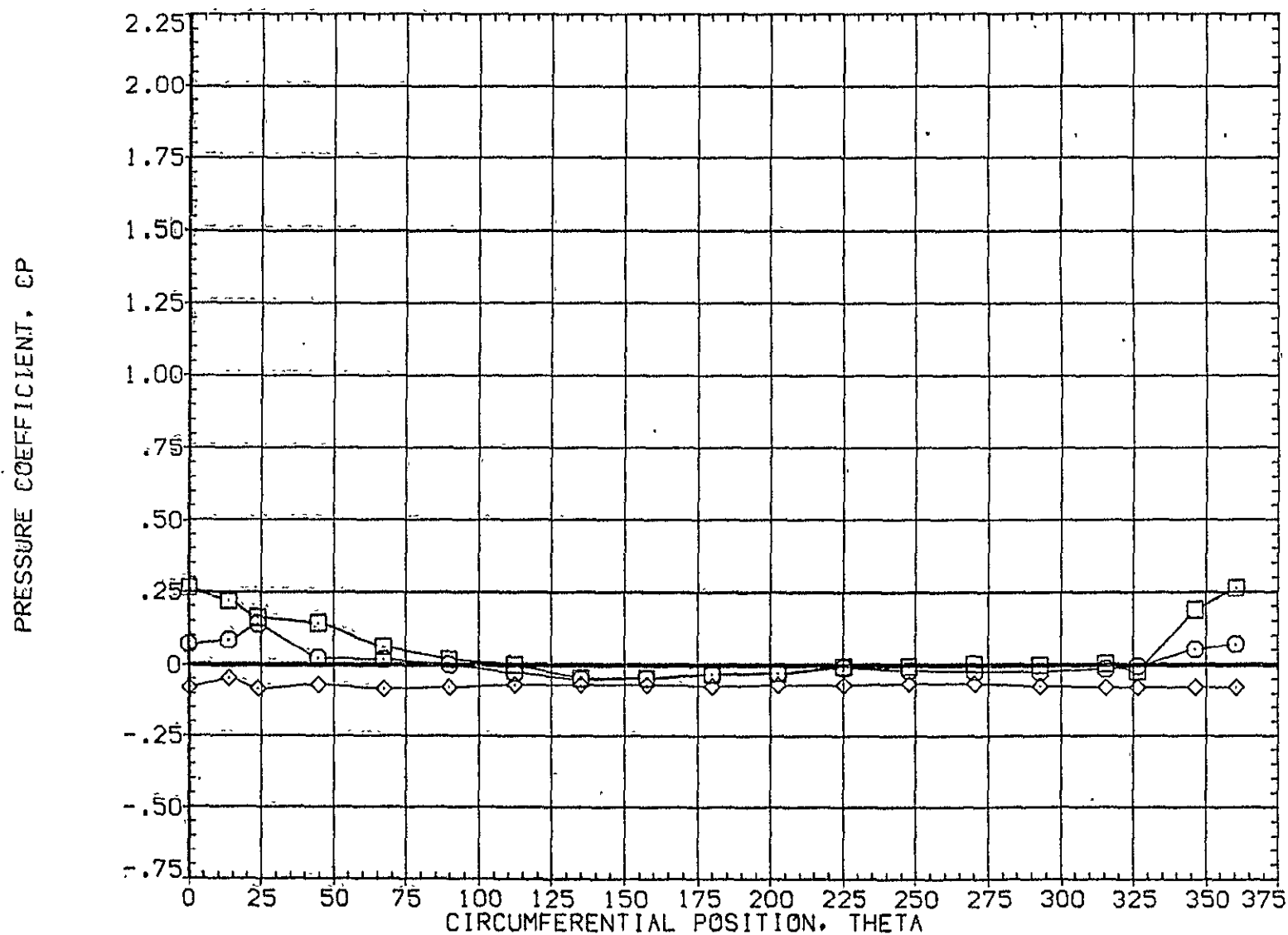


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A082)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.055	-4.330	3.480	BETA	.000	OFFSET
□	.108			MOUNT	1.000	PHI
◇	.162					.000
						45.000

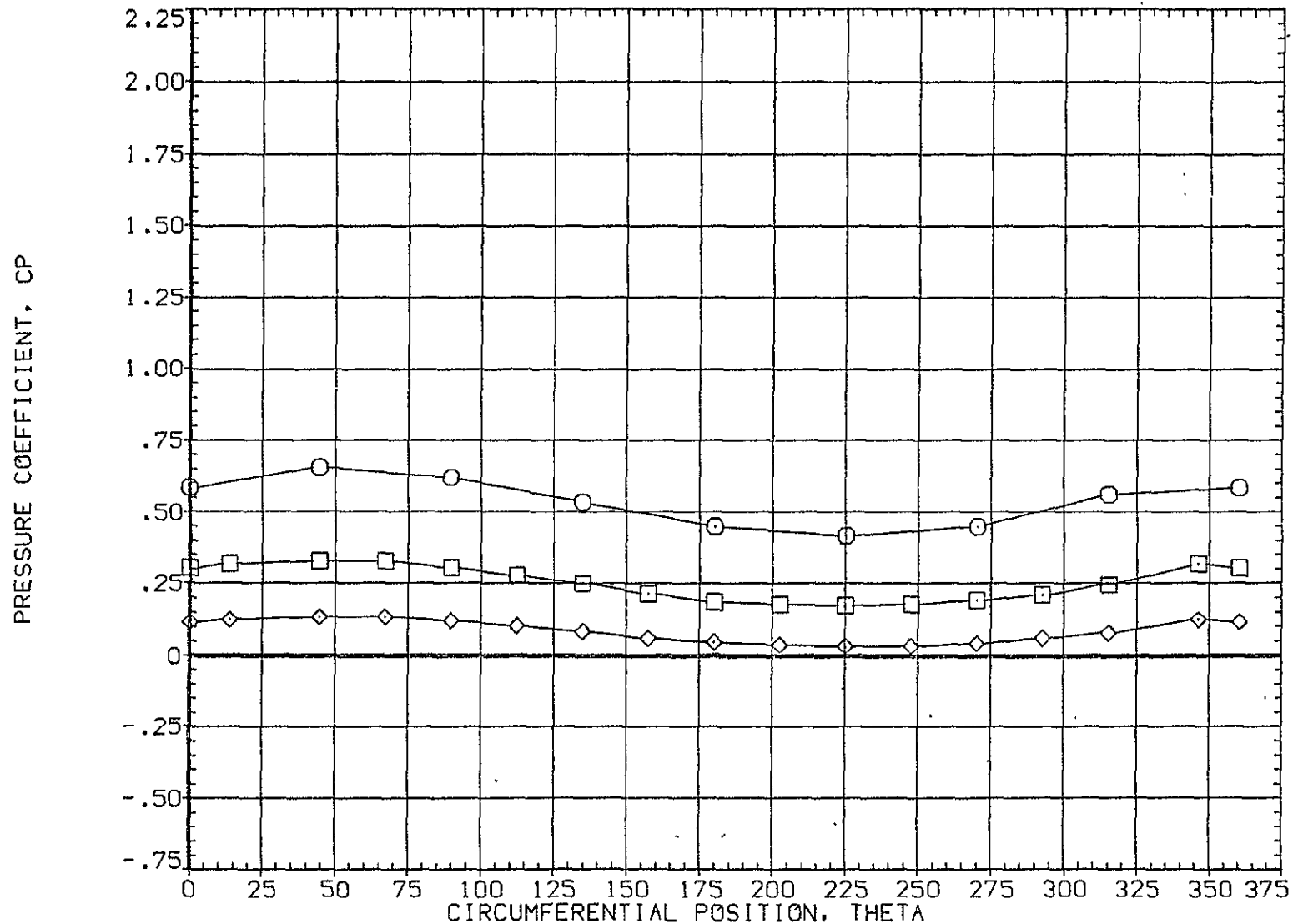


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-4.330	3.480	MOUNT	1.000	PHI
□	.322					
◇	.518					

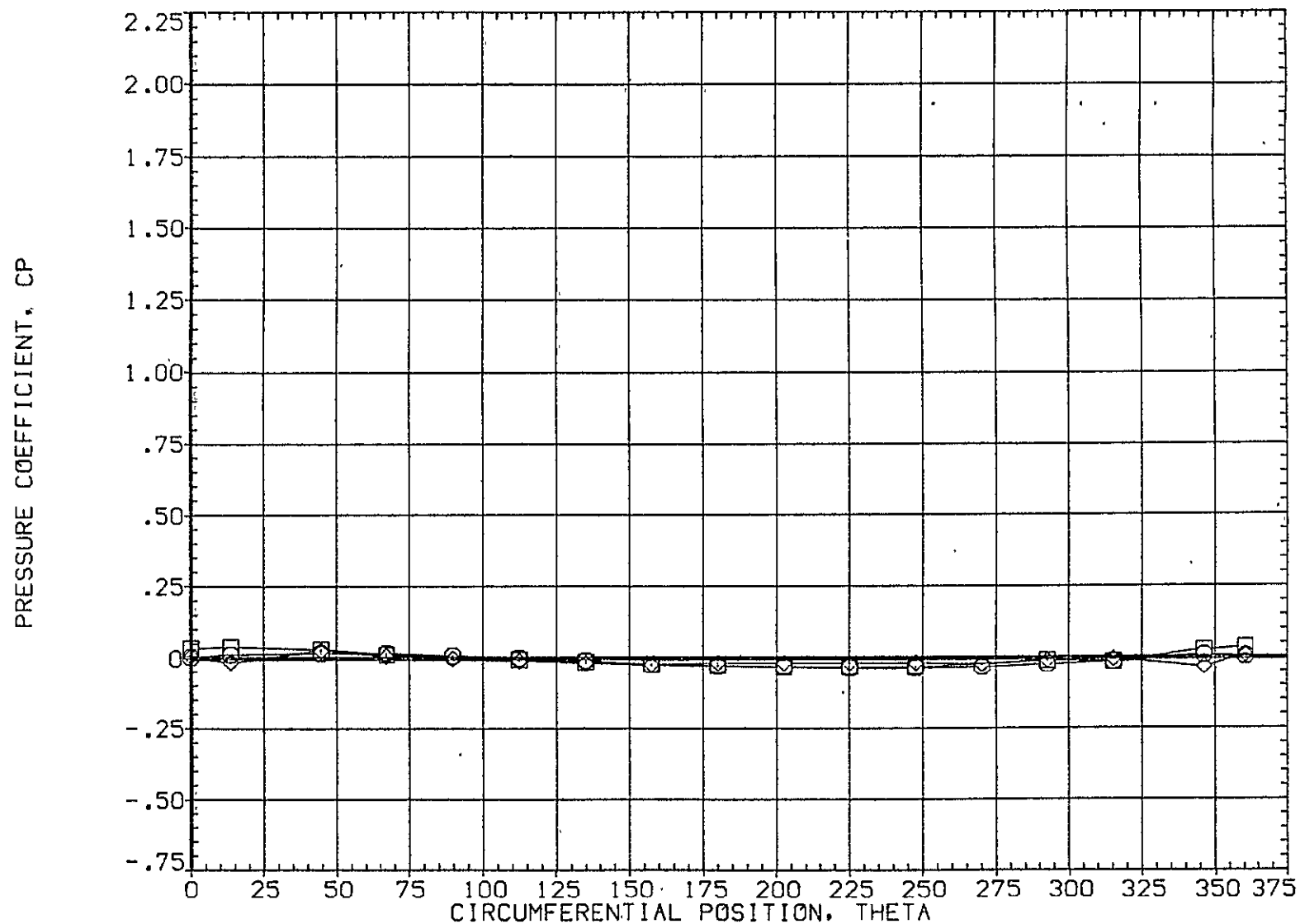


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A082)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-4.330	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	45.000
◇	.860						

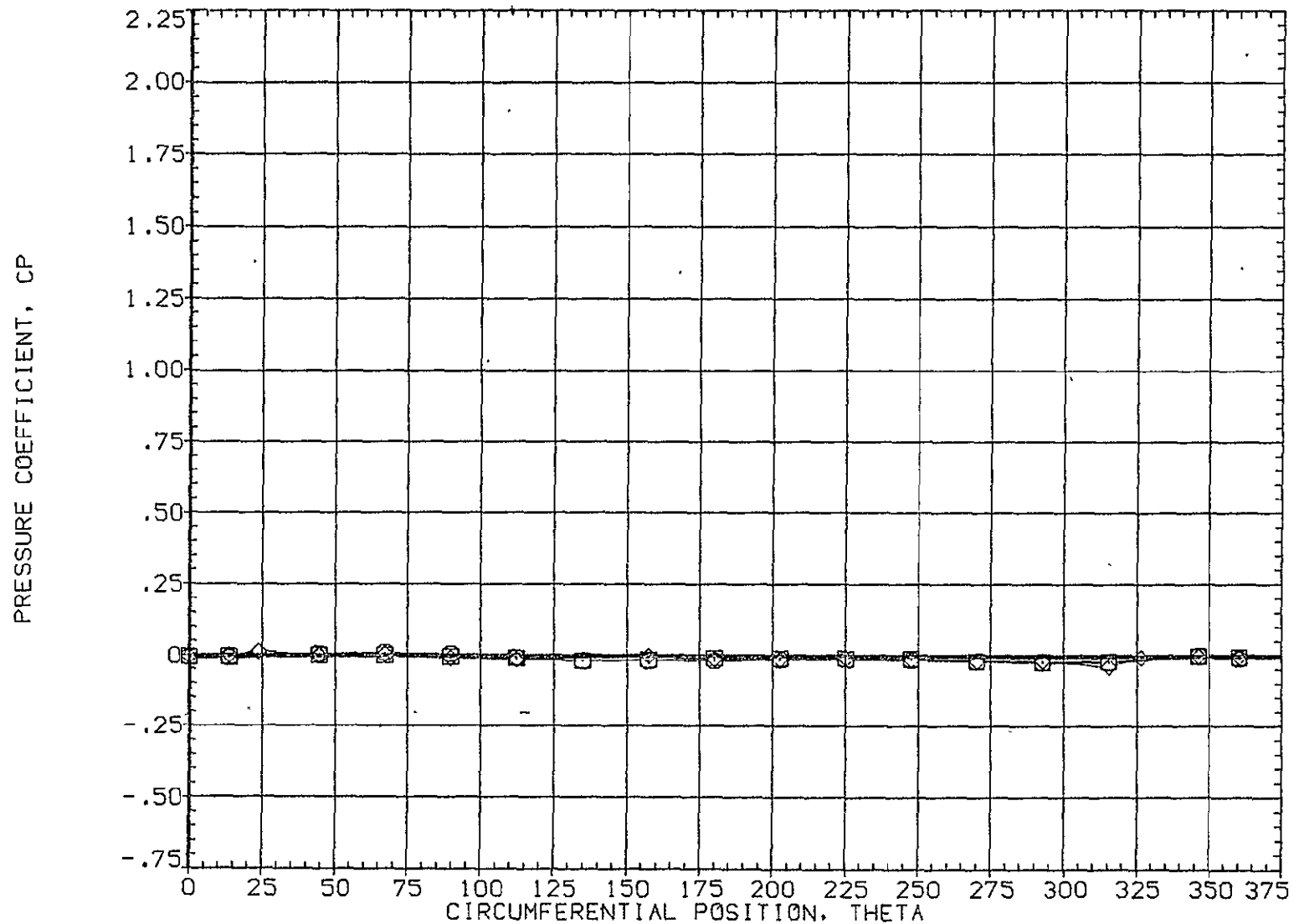


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-4.330	3.480	MOUNT	.000	.000
□	.923				1.000	PHI 45.000
◇	.954					

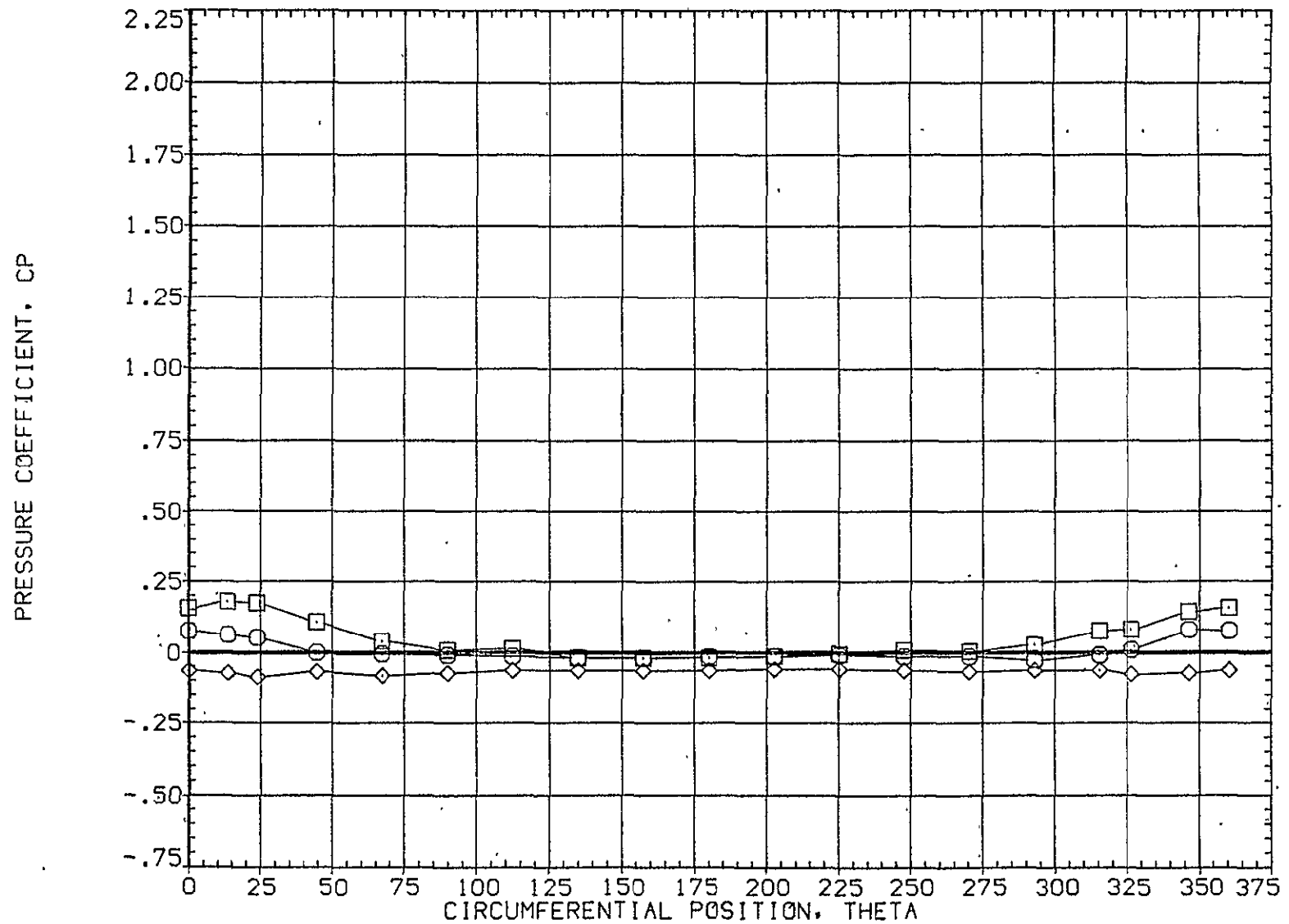


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A083)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	-.280	3.480	.000		.000
□	.108			1.000	PHI	45.000
◇	.162					

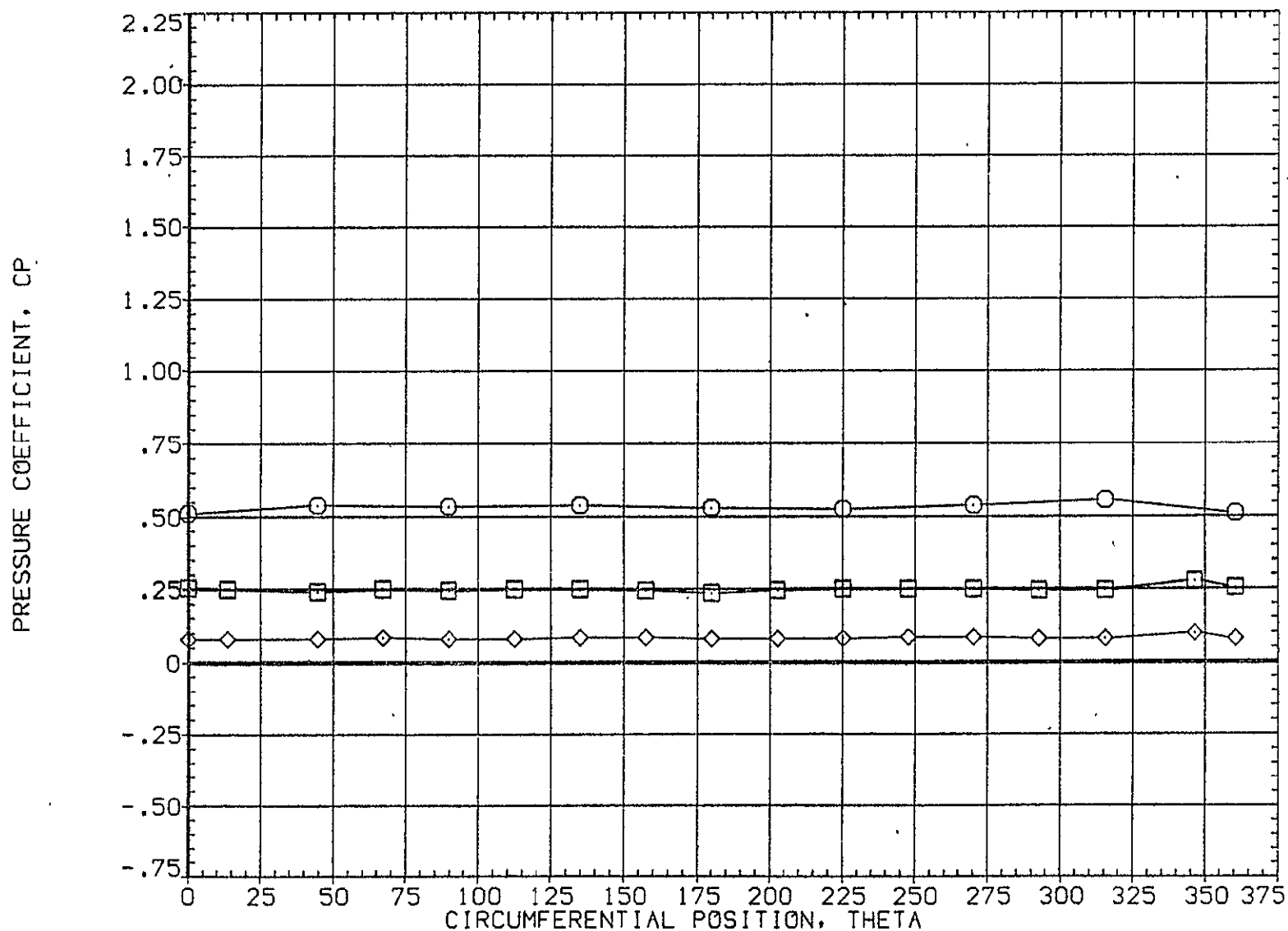


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.216	-.280	3.480	MOUNT	.000	.000	
□	.322				1.000	PHI	45.000
◇	.518						

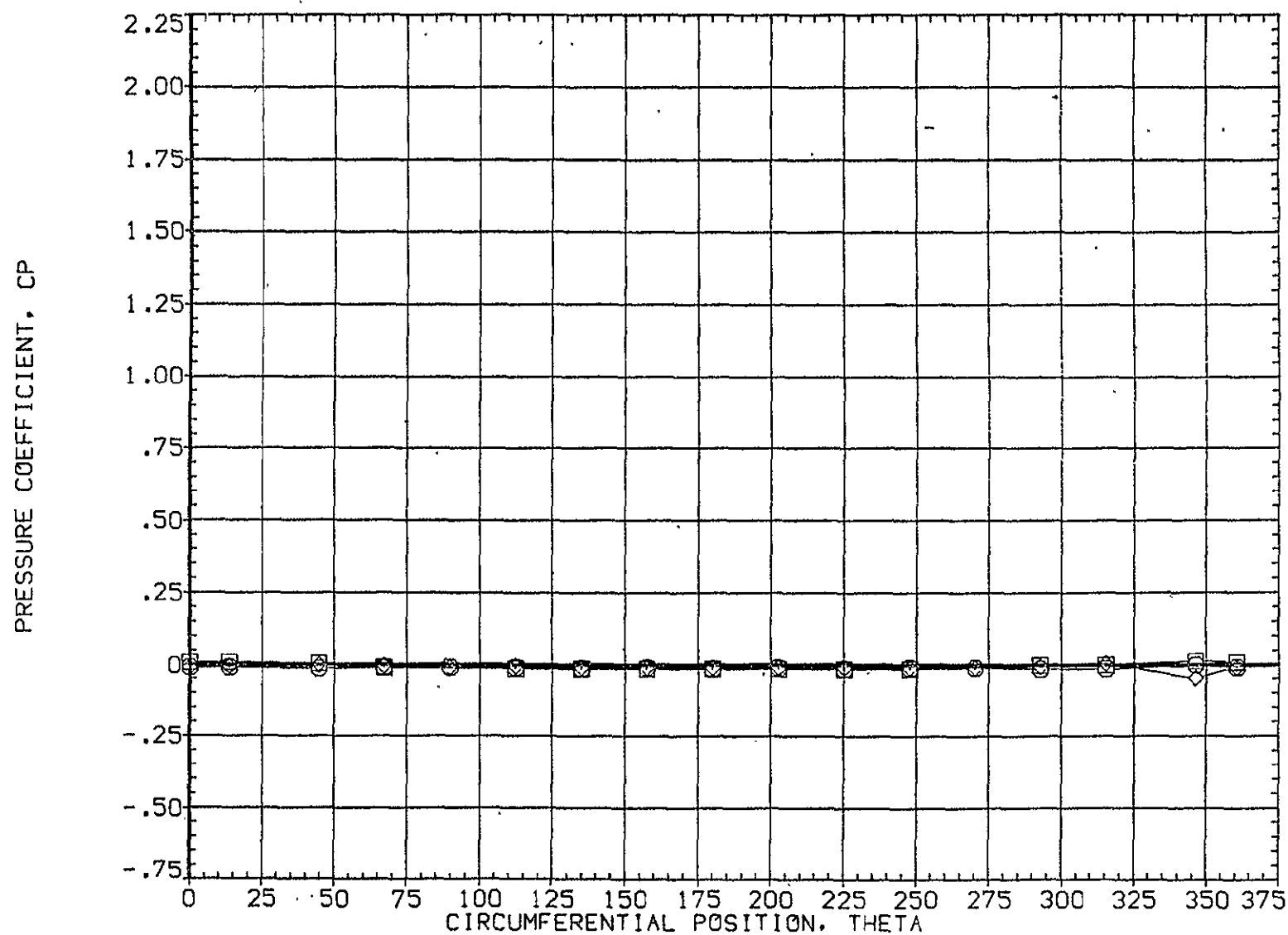


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A083)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-.280	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	45.000
◇	.860						

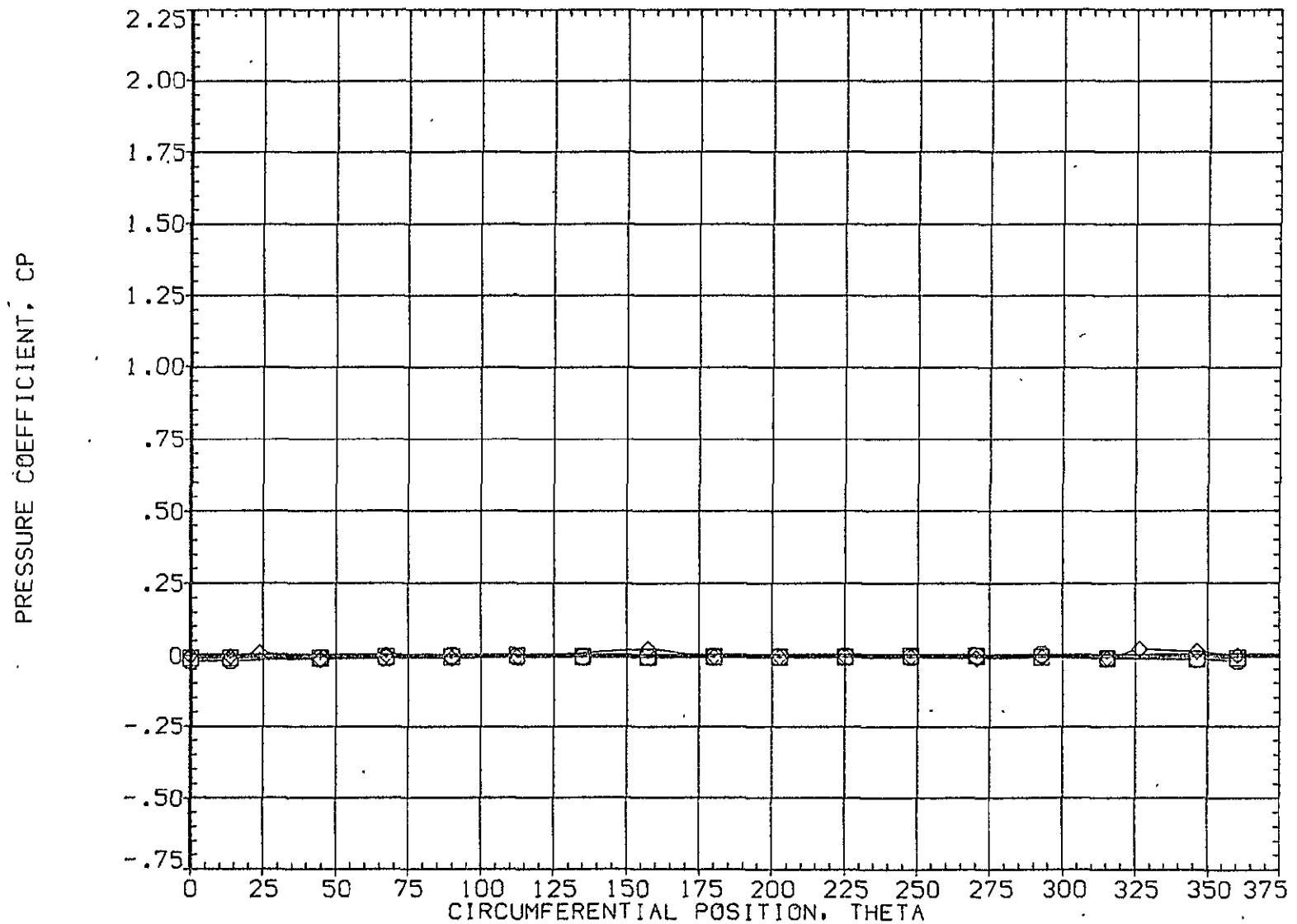


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/L8	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-.280	3.480	.000	.000	
□	.923			1.000	PHI	45.000
◇	.954					

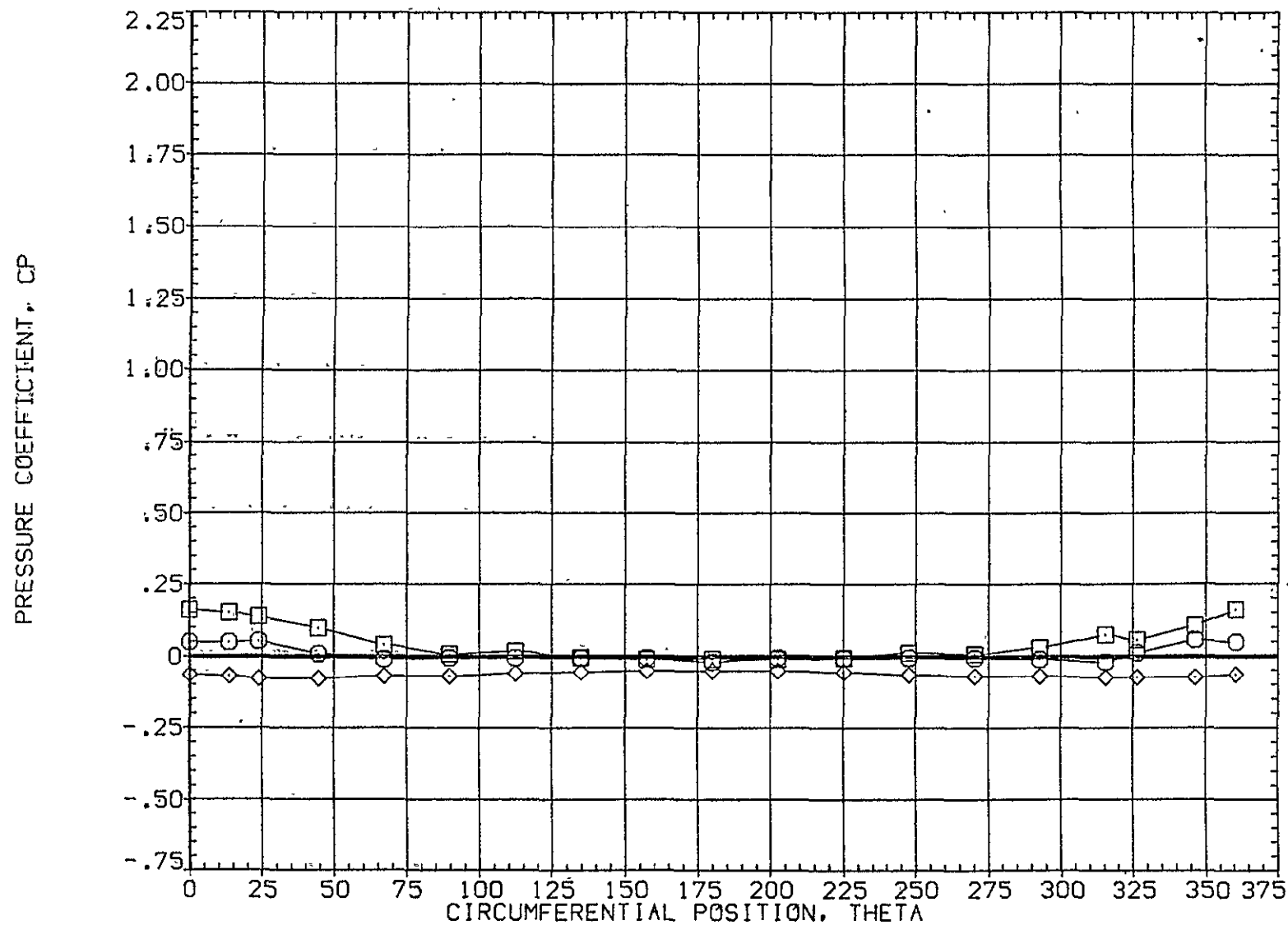


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A084)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.055	3.770	3.480	.000		.000	
□	.108			1.000			45.000
◇	.162						

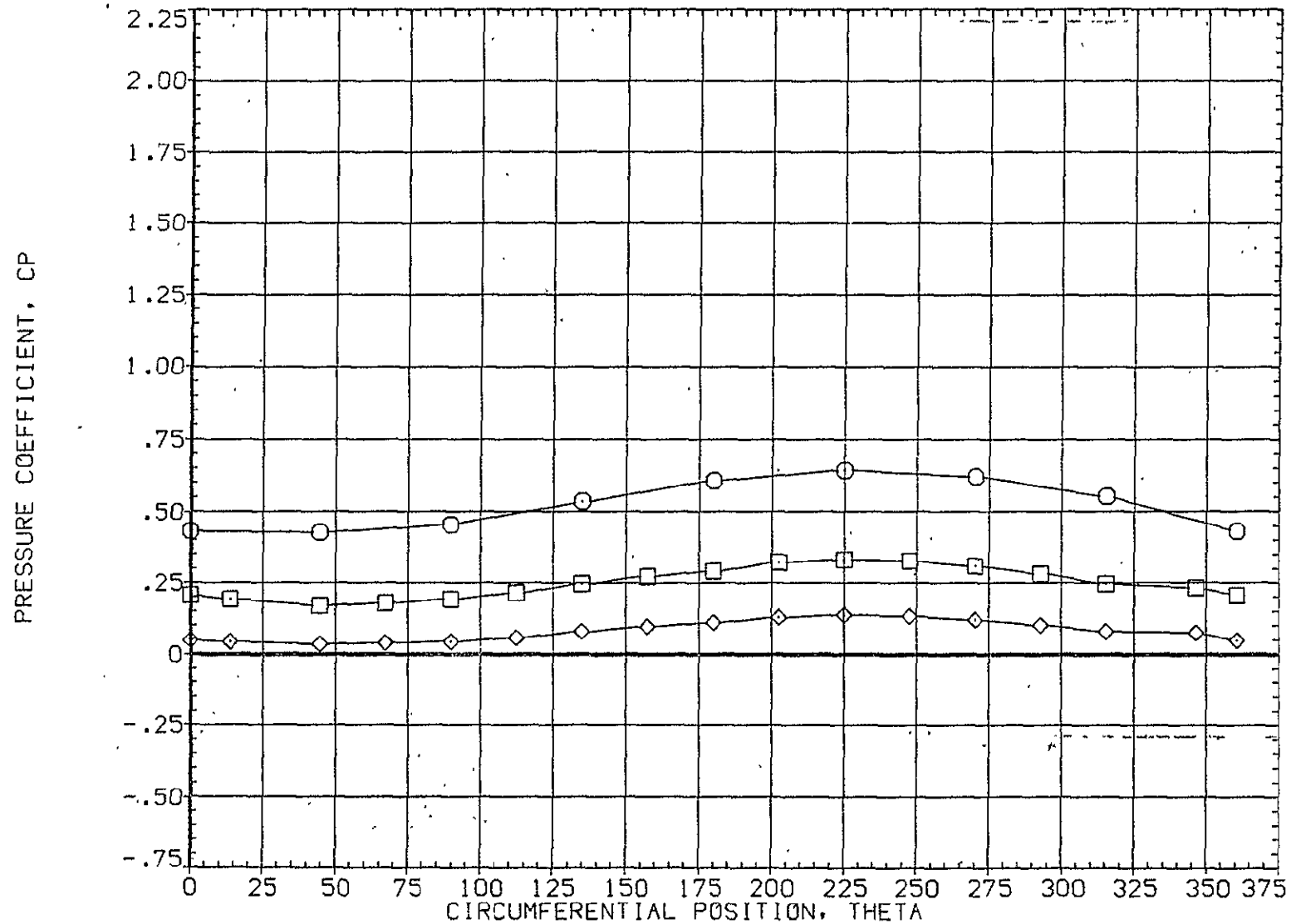


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	3.770	3.480			.000
□	.322			MOUNT	1.000	PHI 45.000
◇	.518					

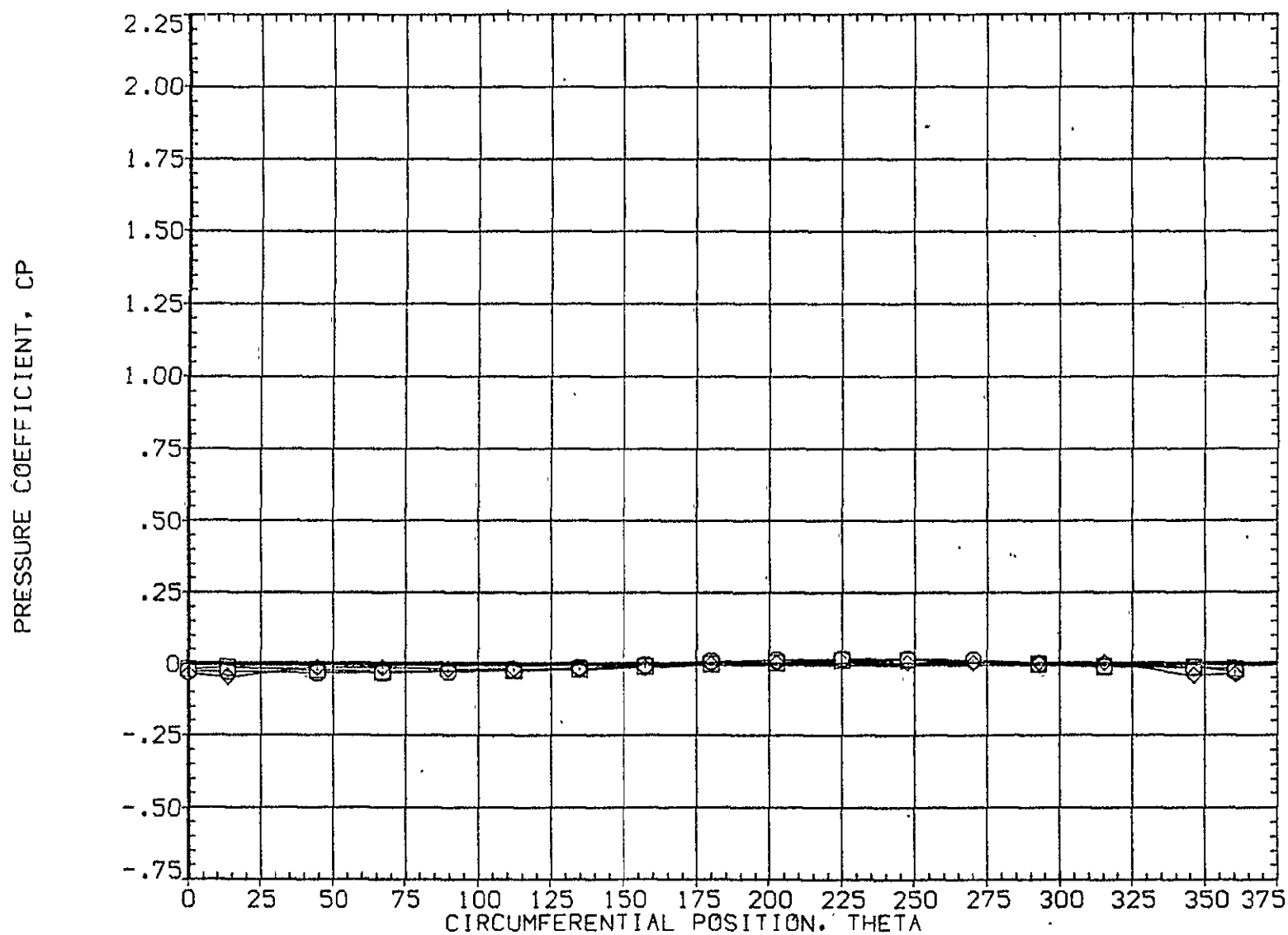


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A084)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.610	3.770	3.480	.000		.000
□	.735			1.000	PHI	45.000
◇	.860					

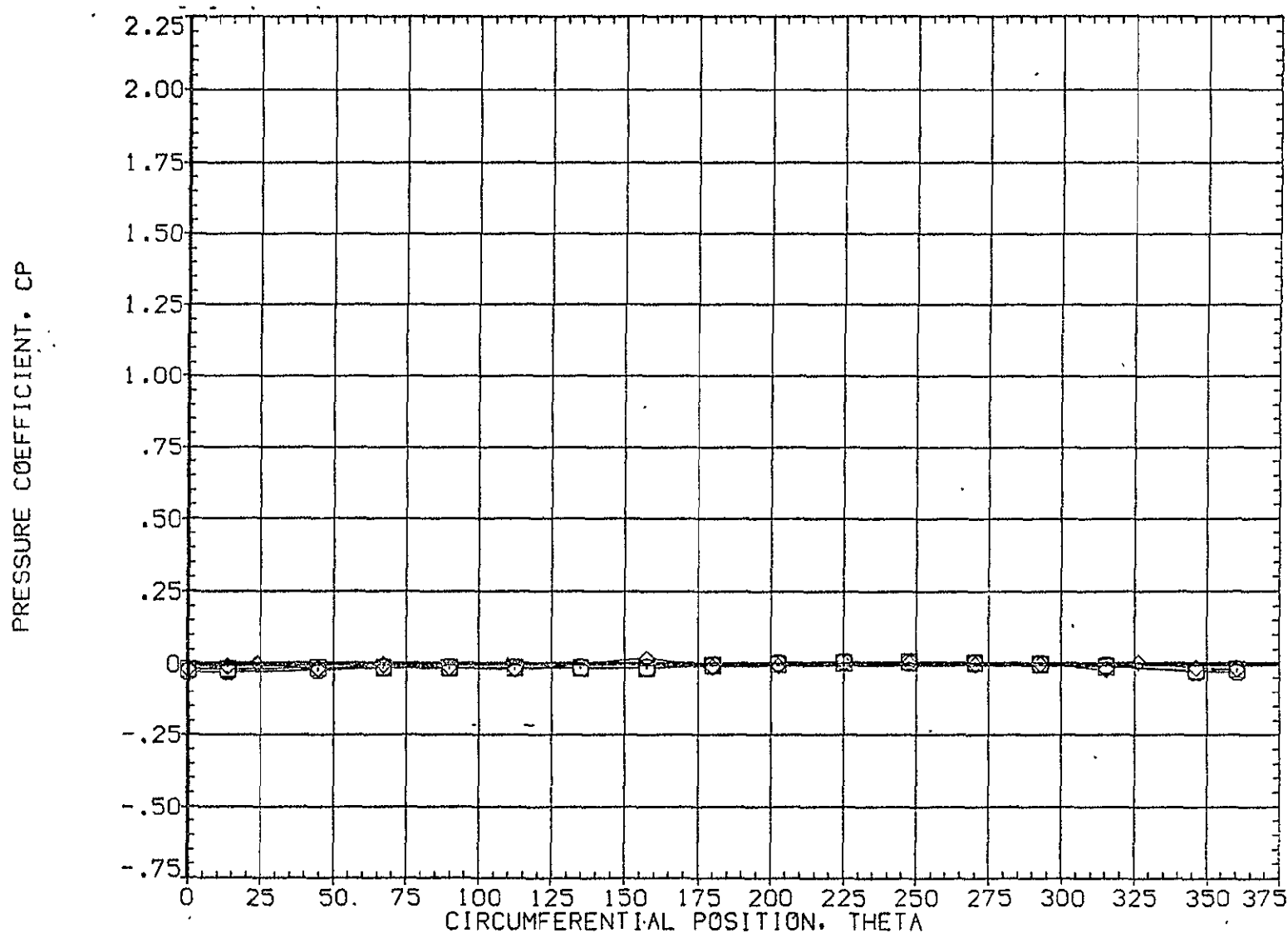


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	3.770	3.480	.000	.000	
□	.923			1.000	PHI	45.000
◇	.954					

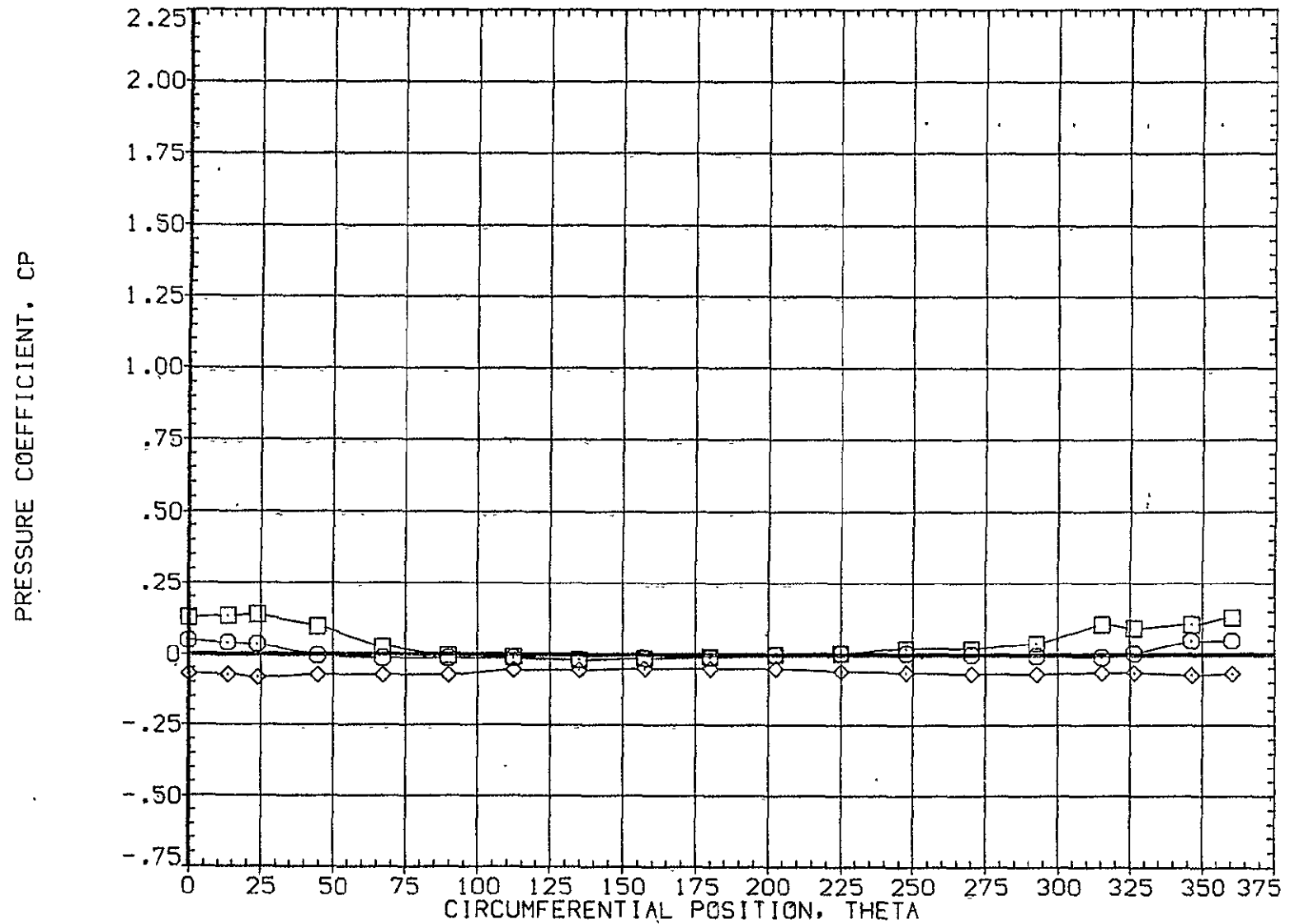


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK.

(P1A085)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	7.800	3.480	MOUNT	.000	.000	
□	.108				1.000	PHI	45.000
◇	.162						

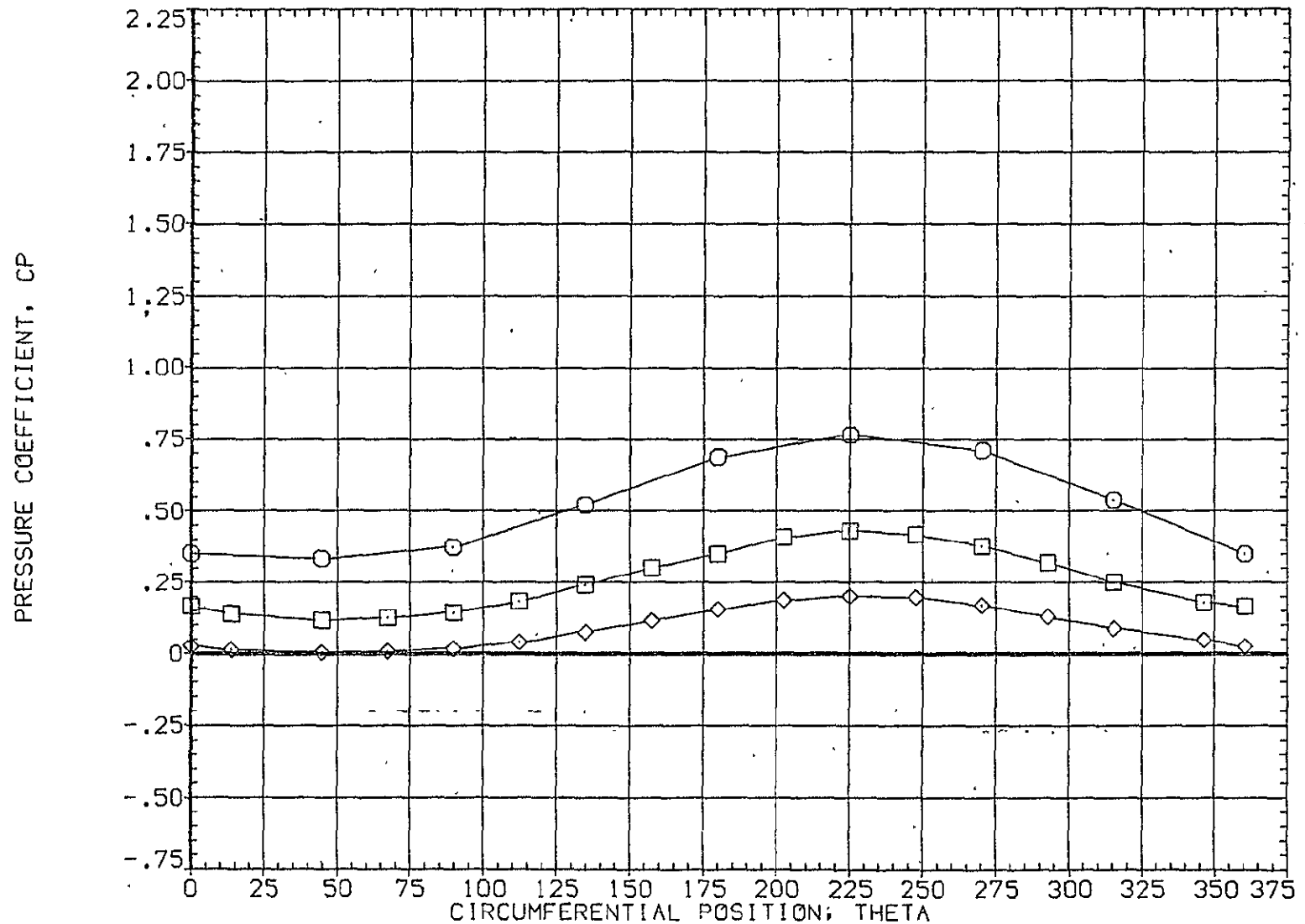


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	7.800	3.480	.000	.000	
□	.322			1.000	PHI	45.000
◇	.518					

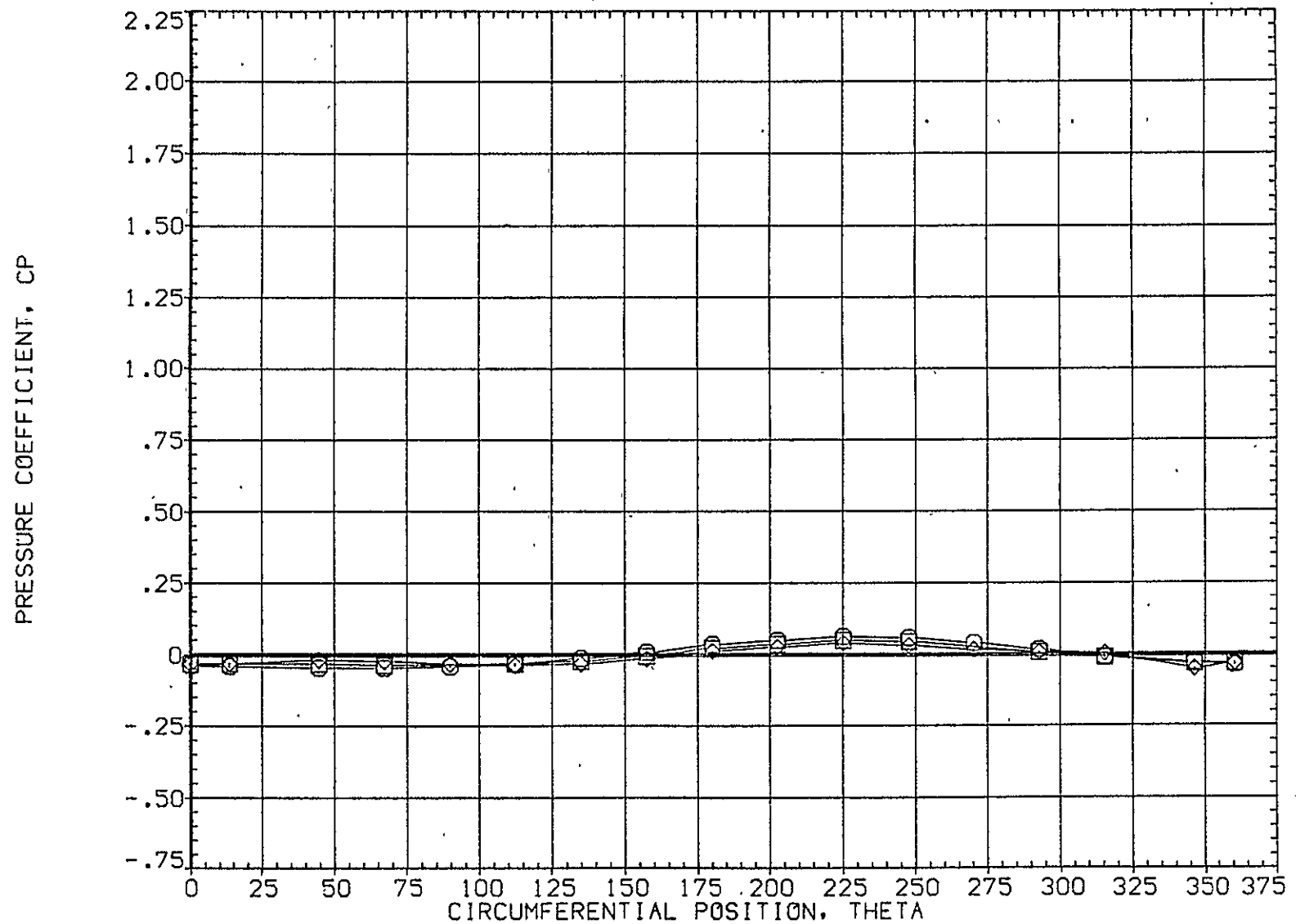


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A085)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.610	7.800	3.480	MOUNT	.000	PHI	45.000
□	.735				1.000		
◇	.860						

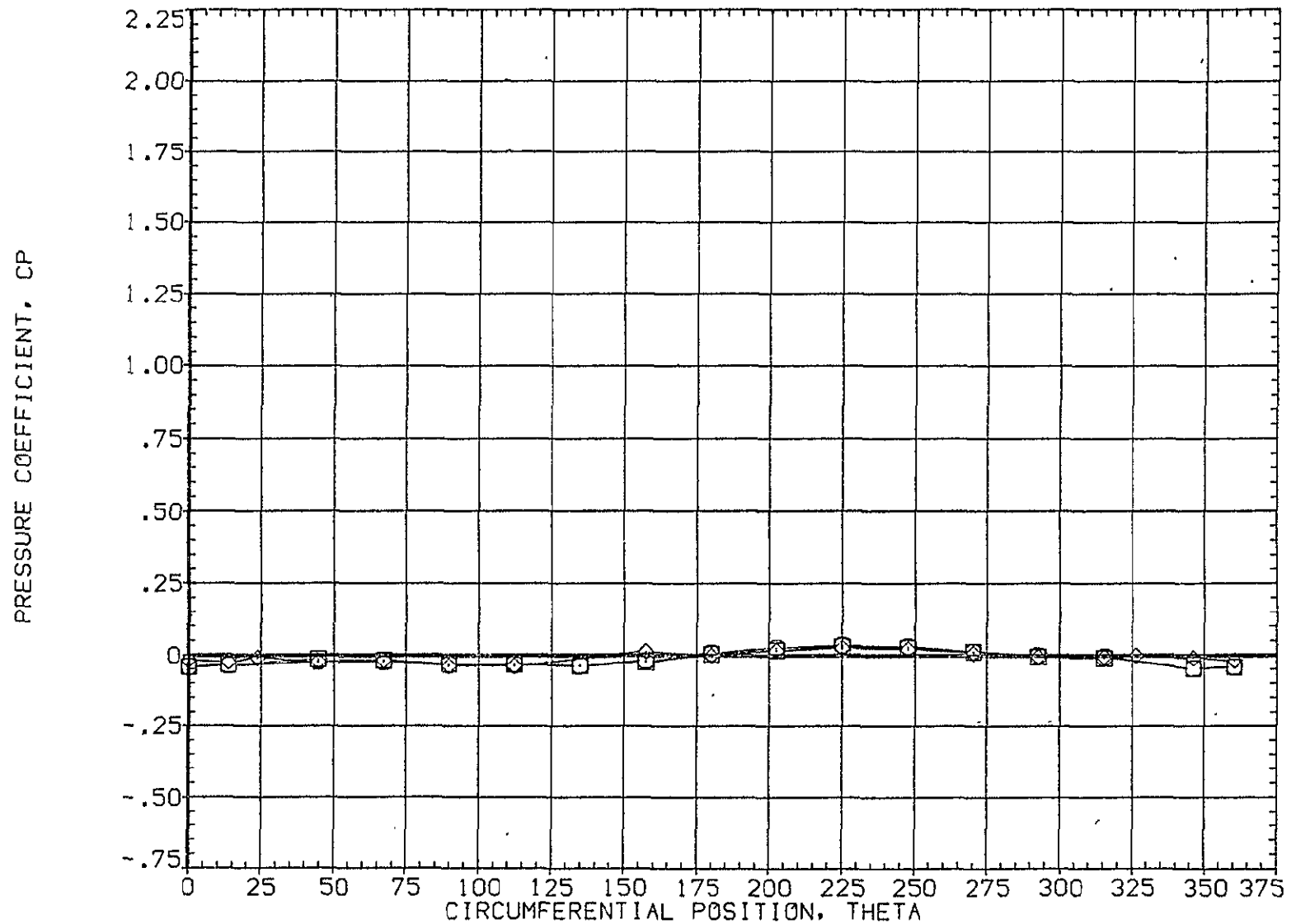


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.892	7.800	3.480			.000
□	.923					
◇	.954					45.000

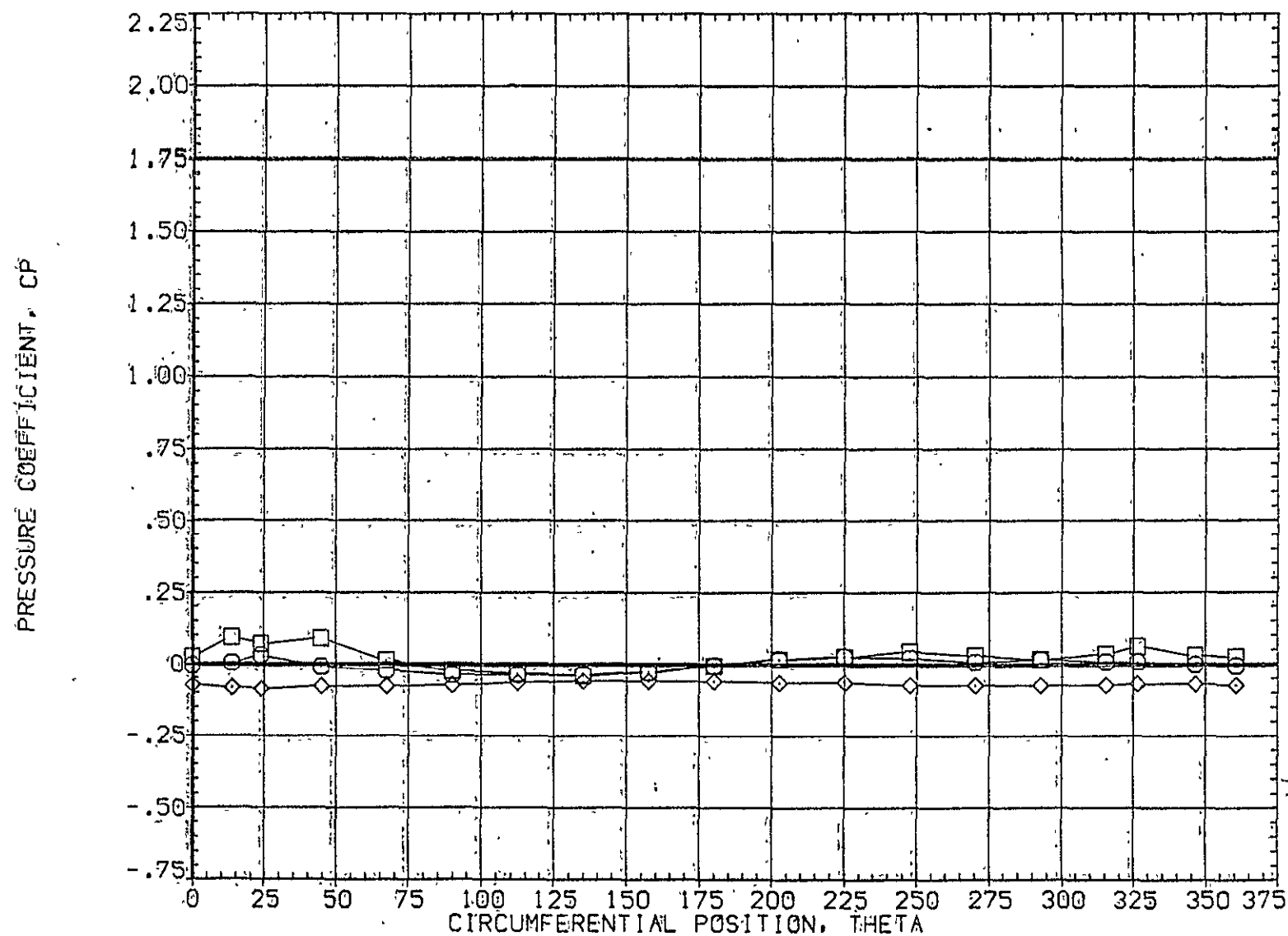


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A086)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	12.520	3.480	.000	OFFSET 20.000
□	.108			1.000	PHI 45.000
◇	.162				

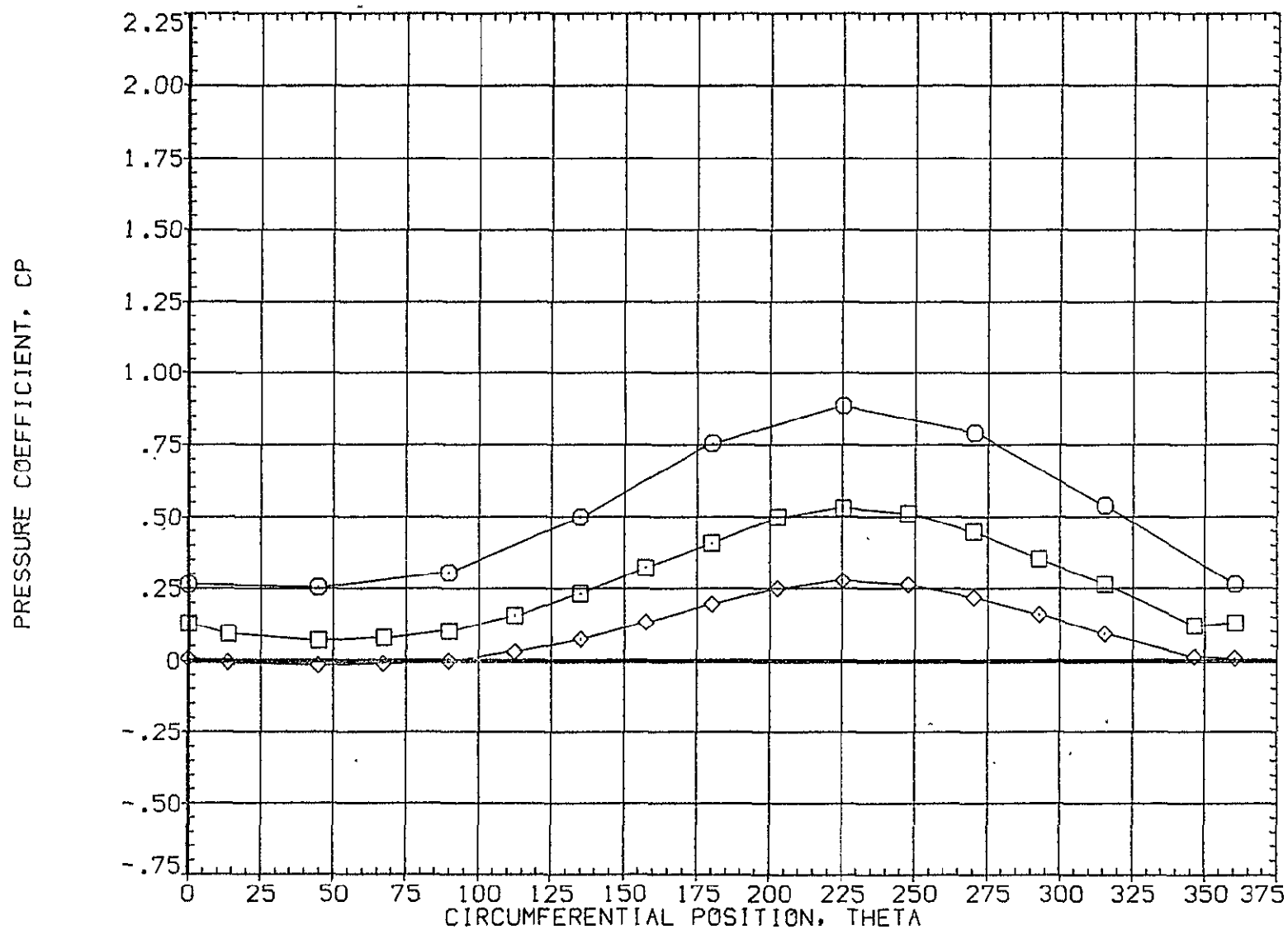


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 45.000
○	.216	12.520	3.480			
□	.322					
◇	.518					

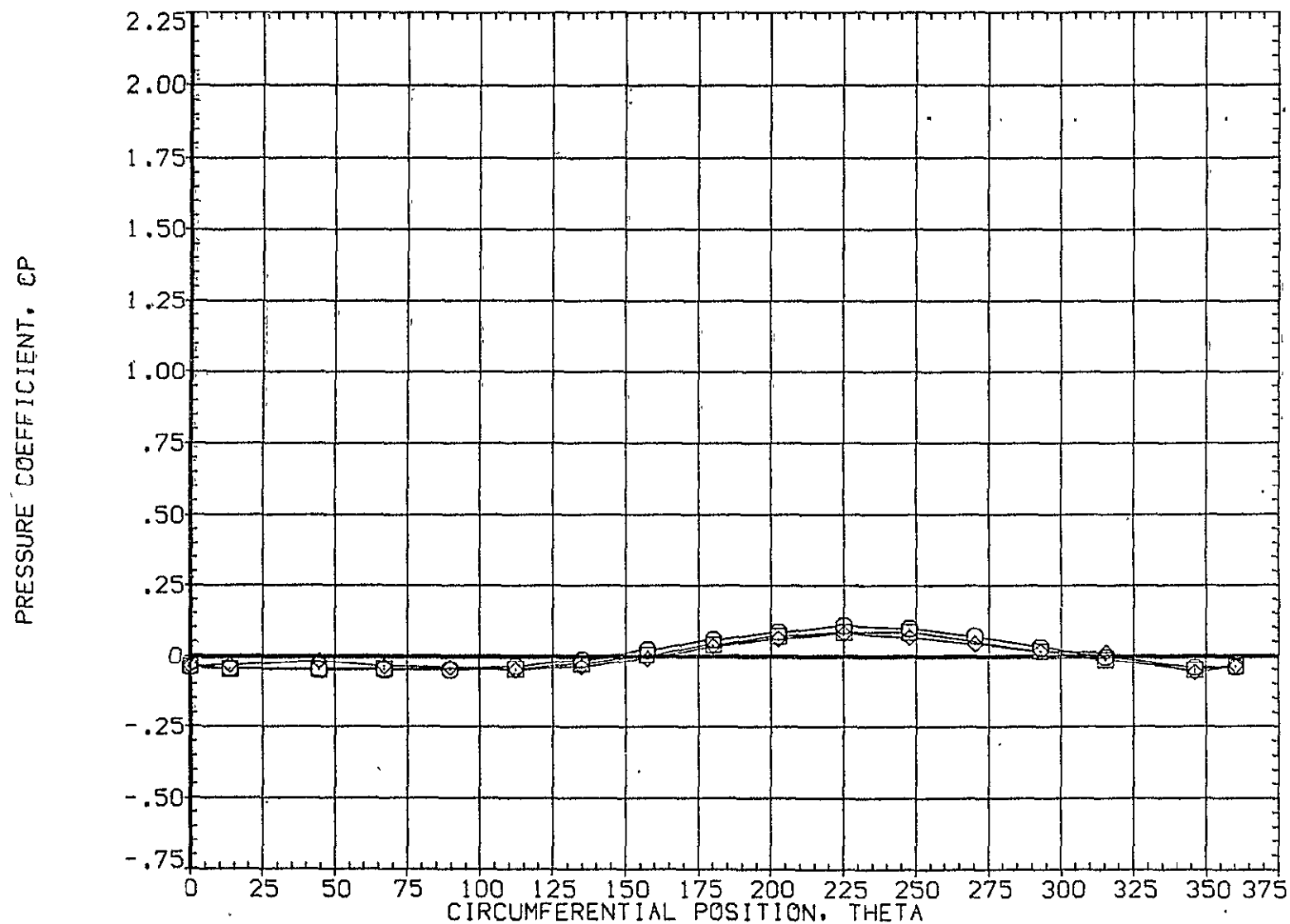


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A086)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	12.520	3.480.	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	45.000
◇	.860						

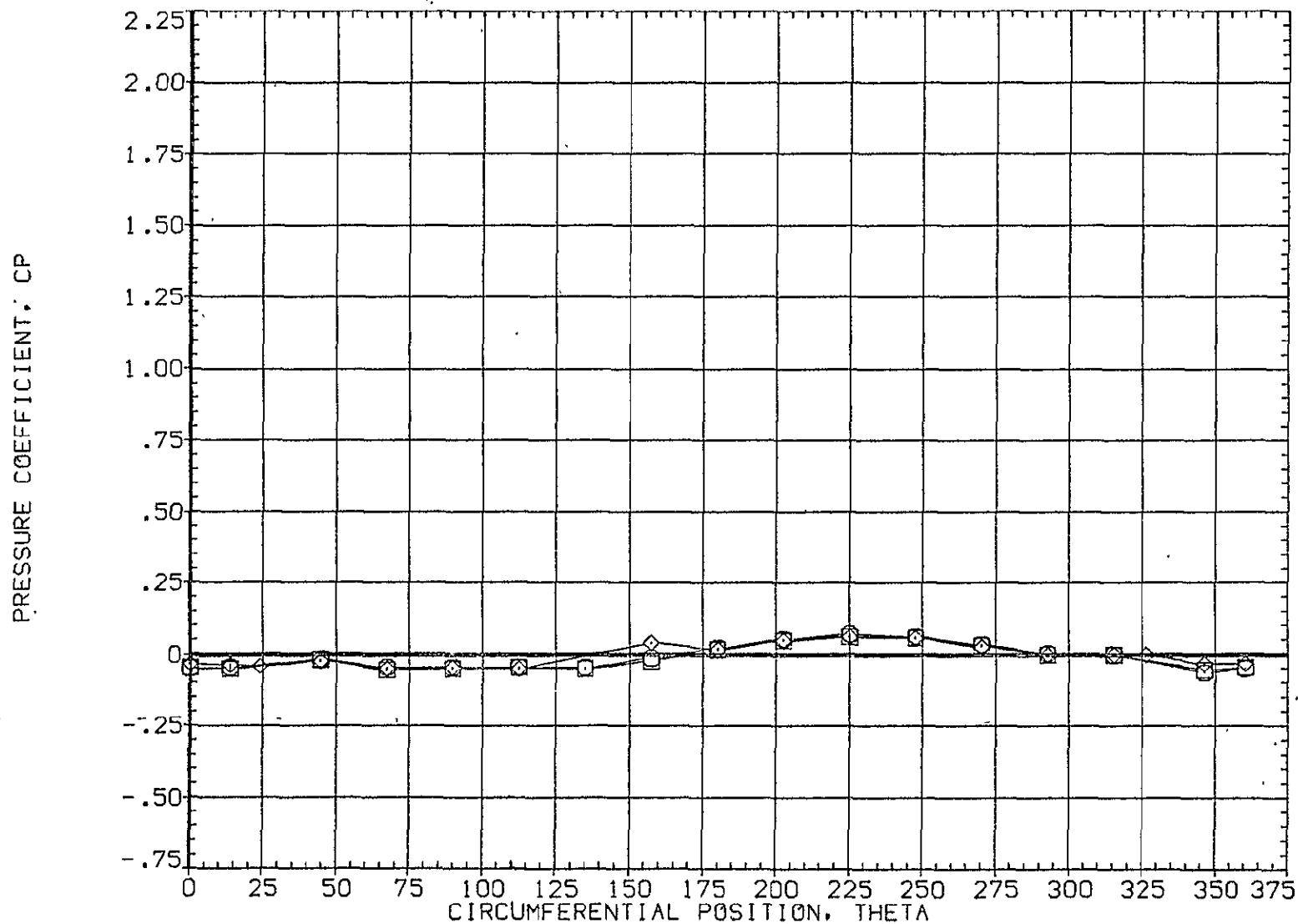


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	12.520	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	45.000

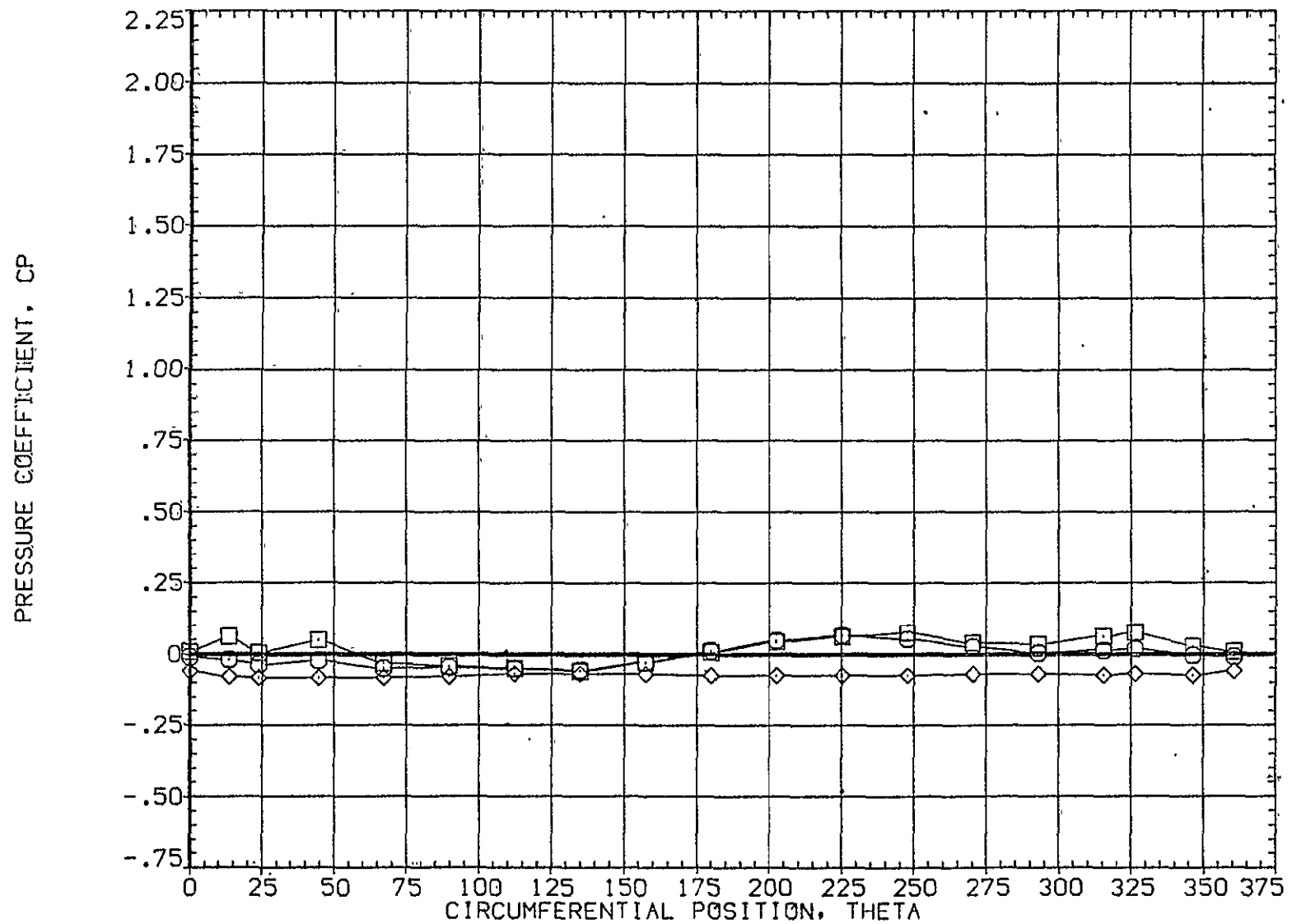


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A087)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.055	16.560	3.480	MOUNT	.000	PHI	45,000
□	.108				1.000		
◇	.162						

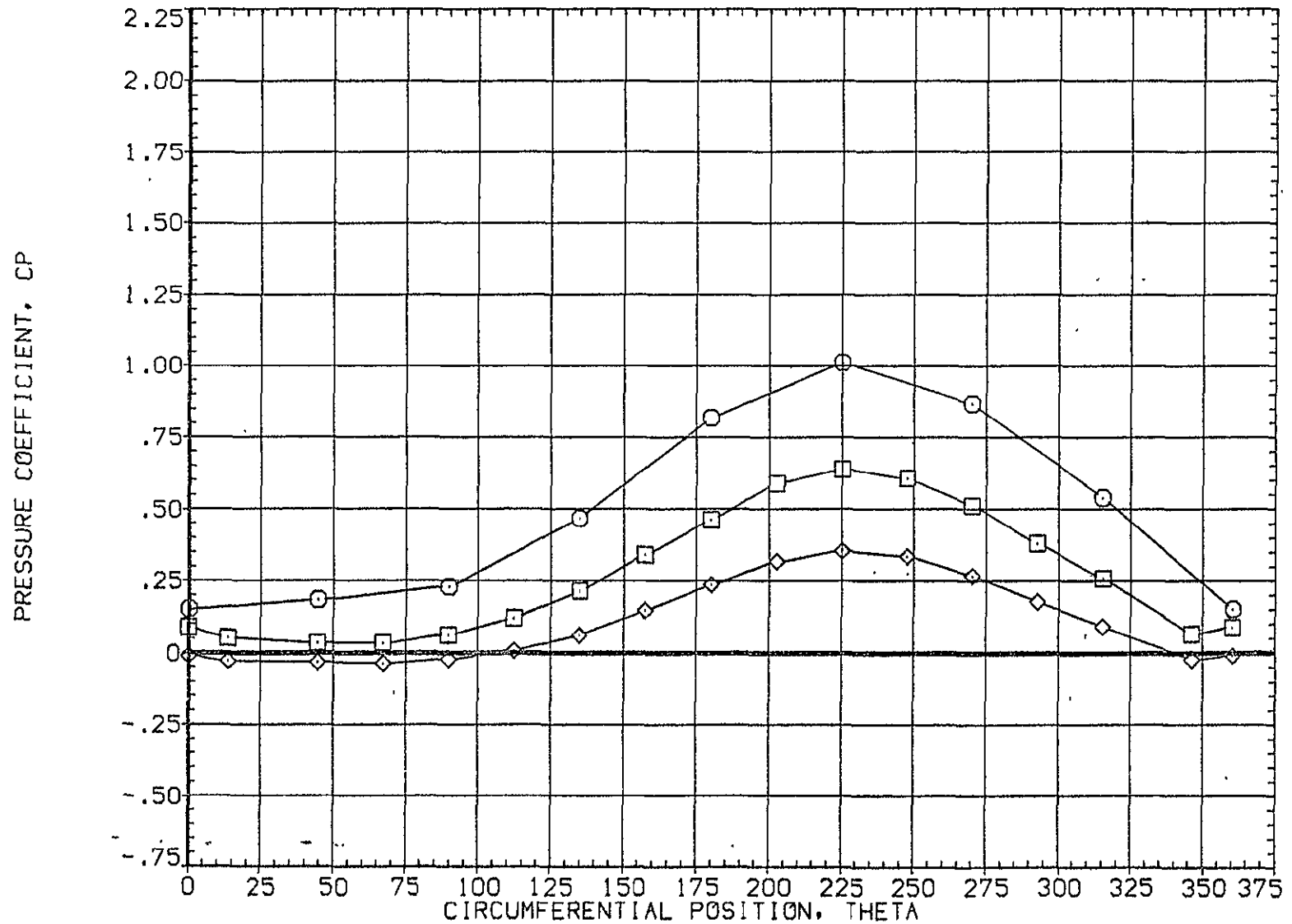


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL
⊙
⊠
◇X/LB
.216
.322
.518ALPHA
16.560MACH
3.480BETA
MOUNT

PARAMETRIC VALUES

.000 OFFSET

20.000

1.000 PHI

45.000

PRESSURE COEFFICIENT, CP

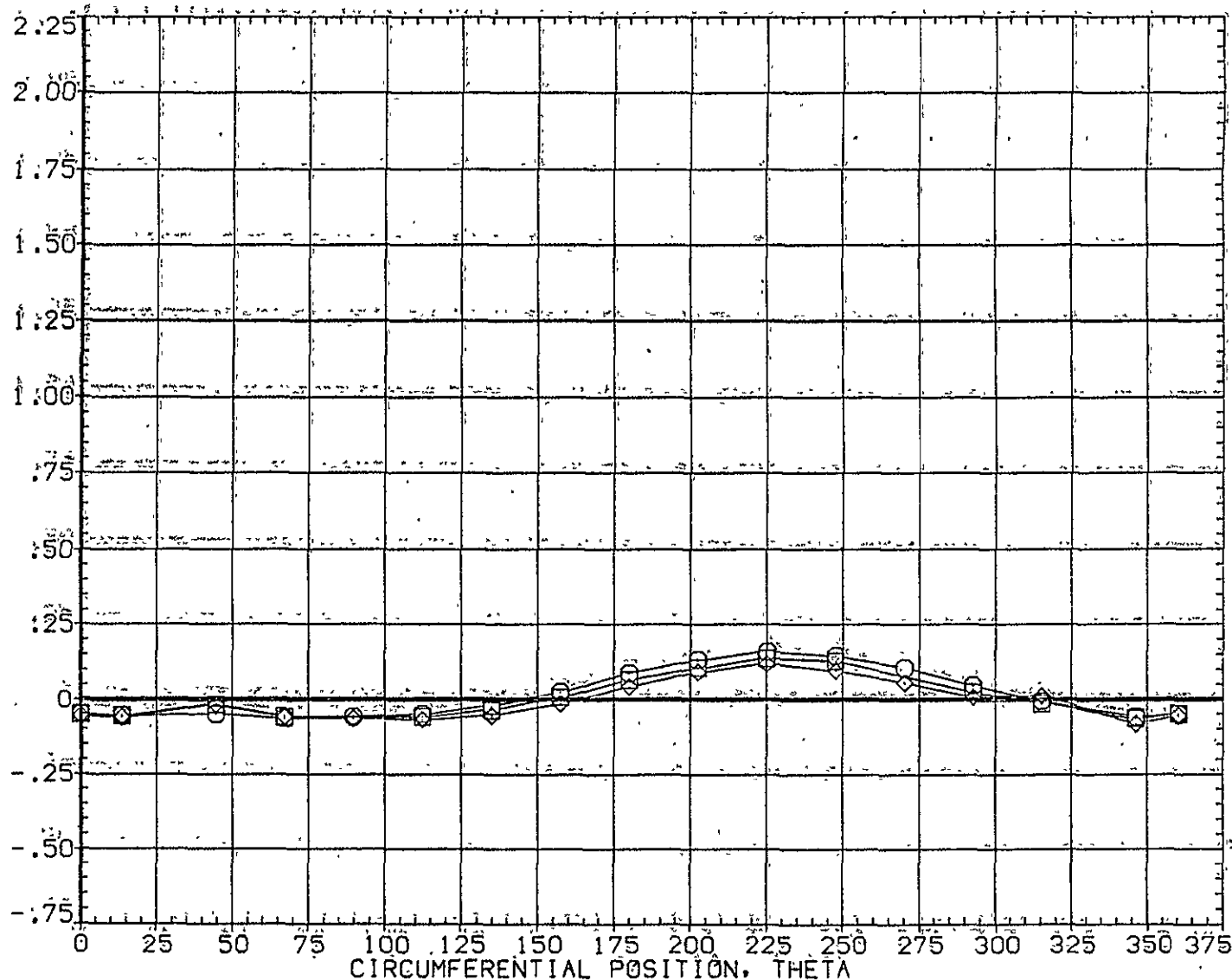


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A087)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	16.560	3.480	MOUNT	.000		20.000
□	.735				1.000		45.000
◇	.860						

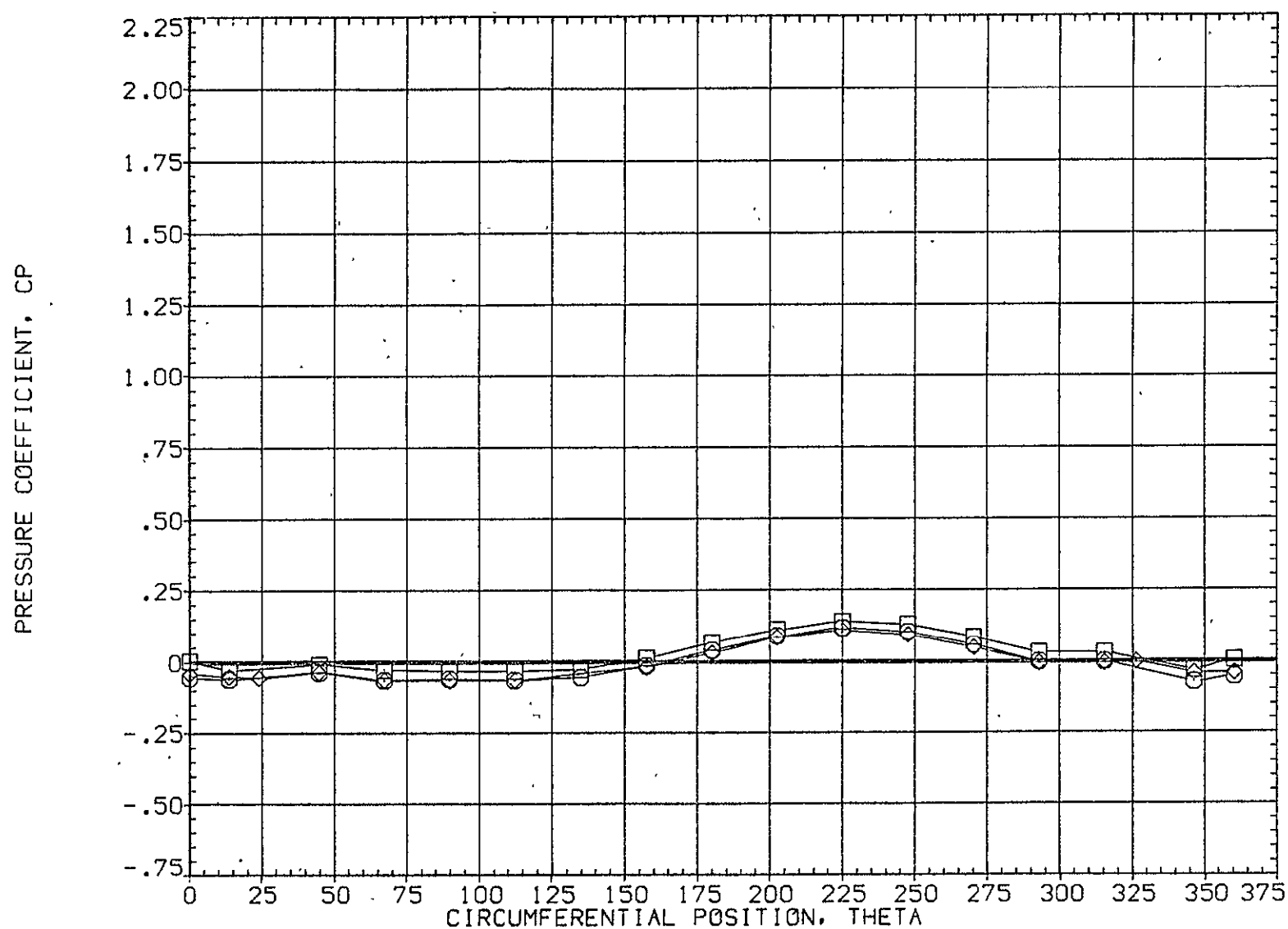


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	16.560	3.480	.000	1.000	PHI	20.000
□	.923						45.000
◇	.954						

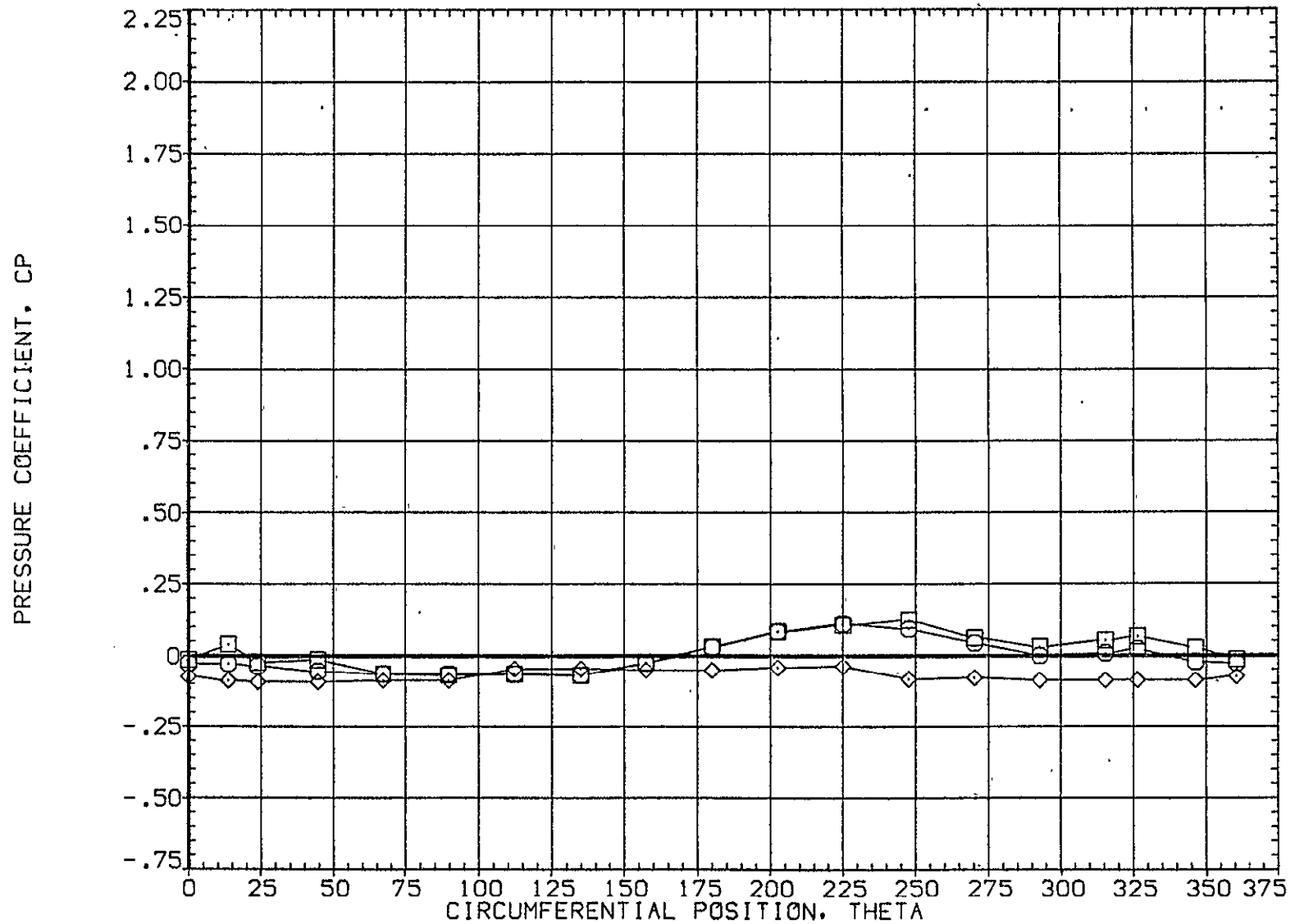


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A088)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	20.610	3.480	MOUNT	.000	PHI	45.000
□	.108				1.000		
◇	.162						

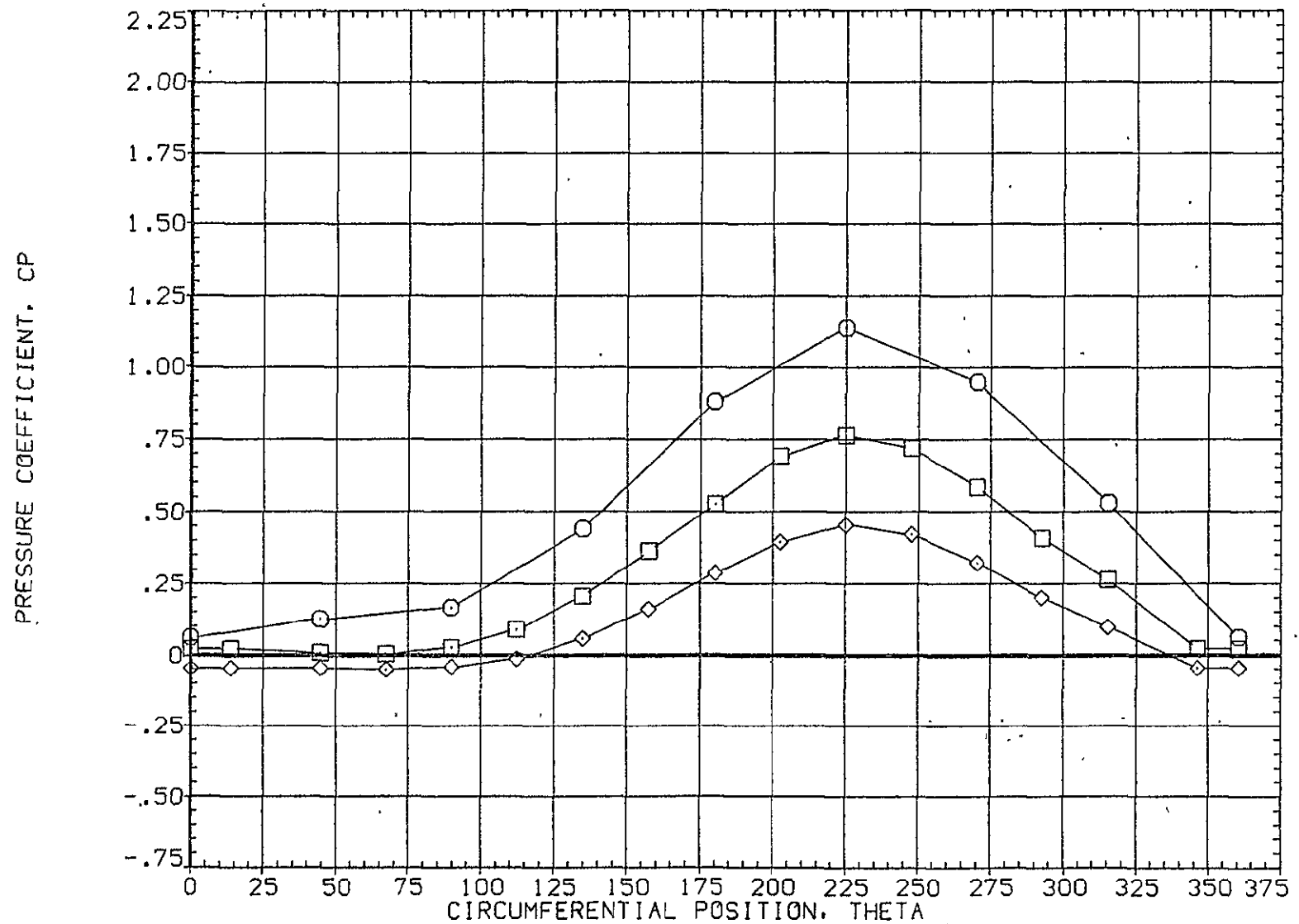


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.216	20.610	3.480	.000	OFFSET 20.000
□	.322			1.000	PHI 45.000
◇	.518				

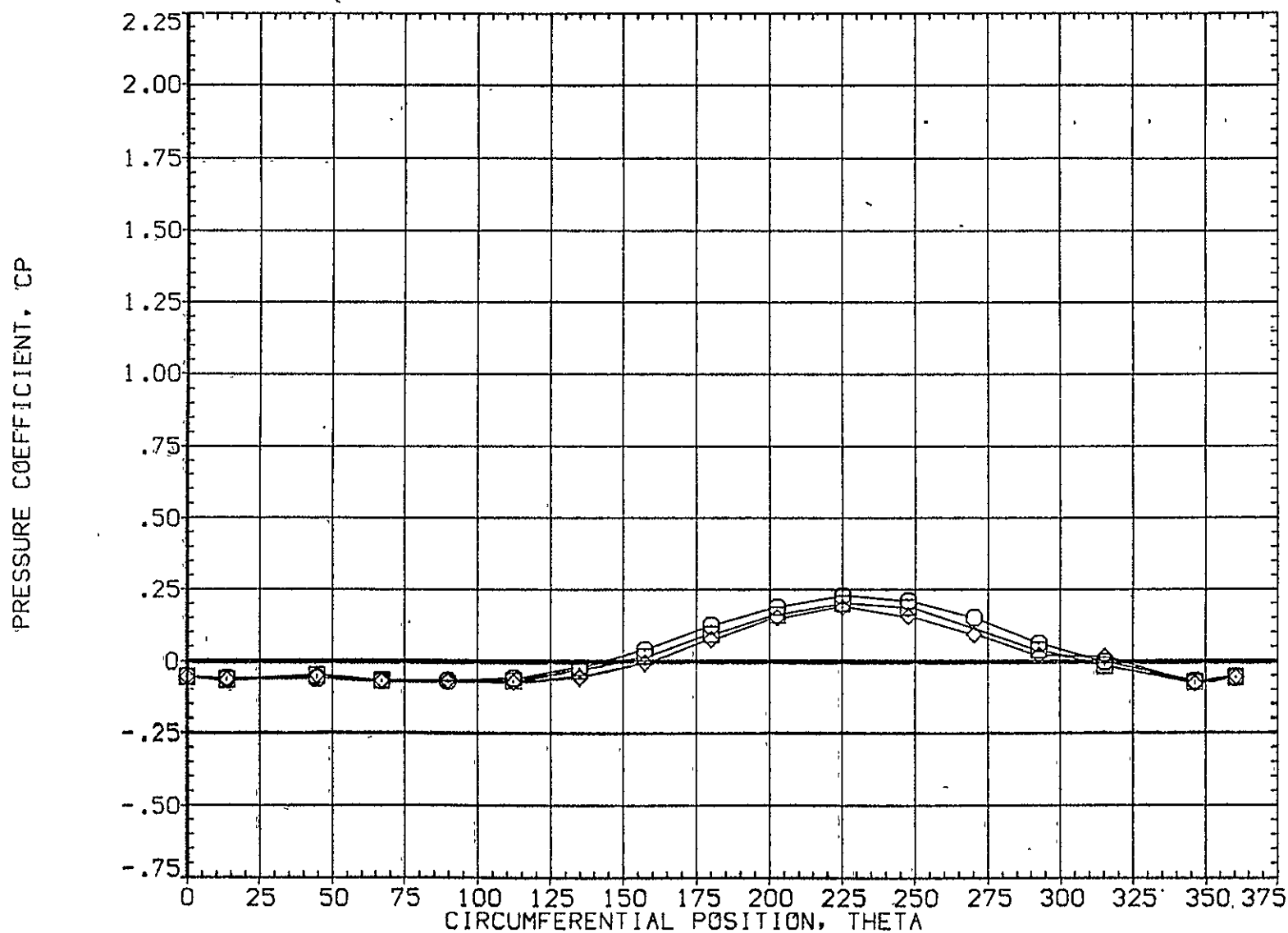


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A088)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	20.610	3.480	MOUNT	.000	PHI	45.000
□	.735				1.000		
◇	.860						

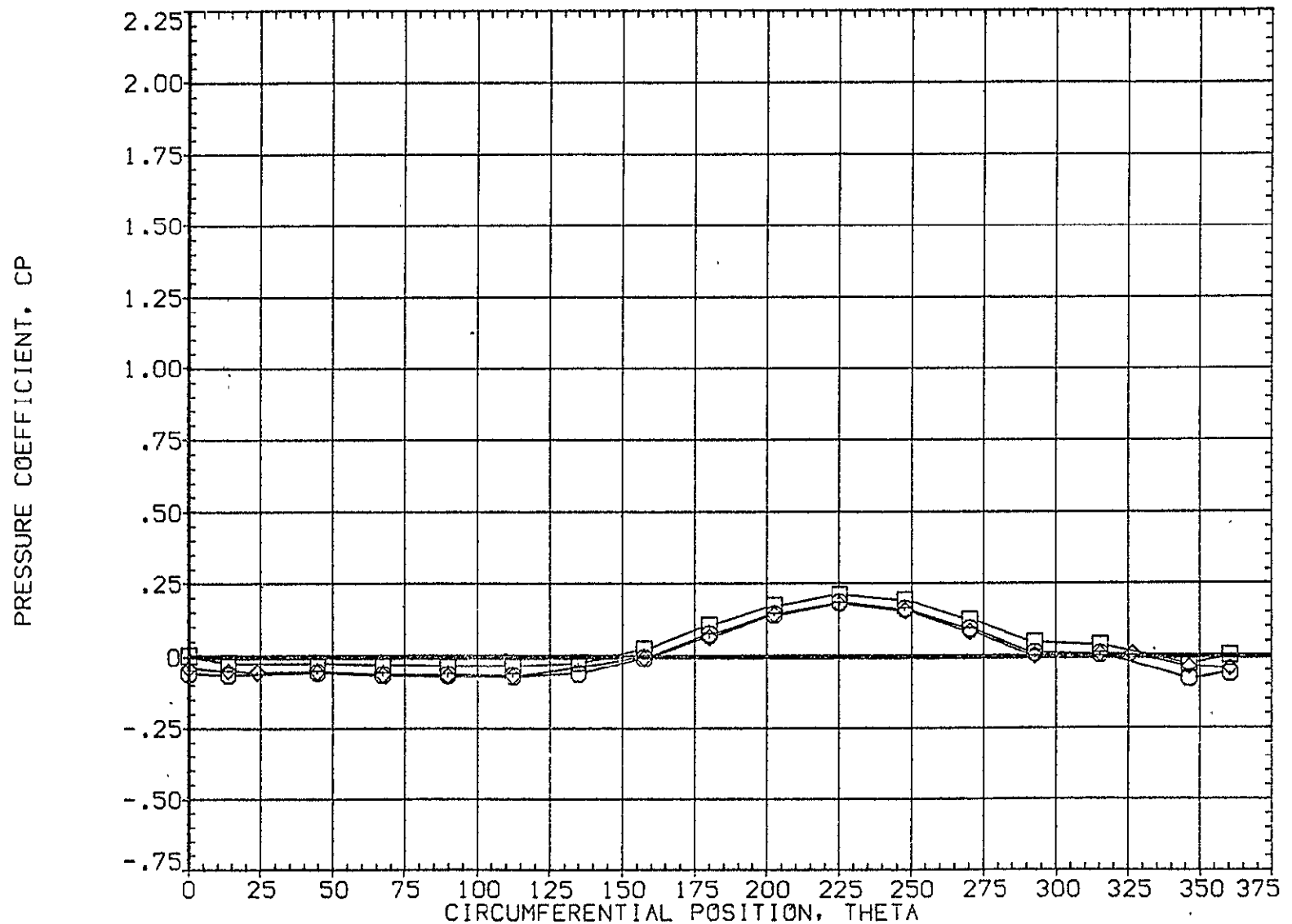


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

○
□
◇.892
.923
.954

20.610

3.480

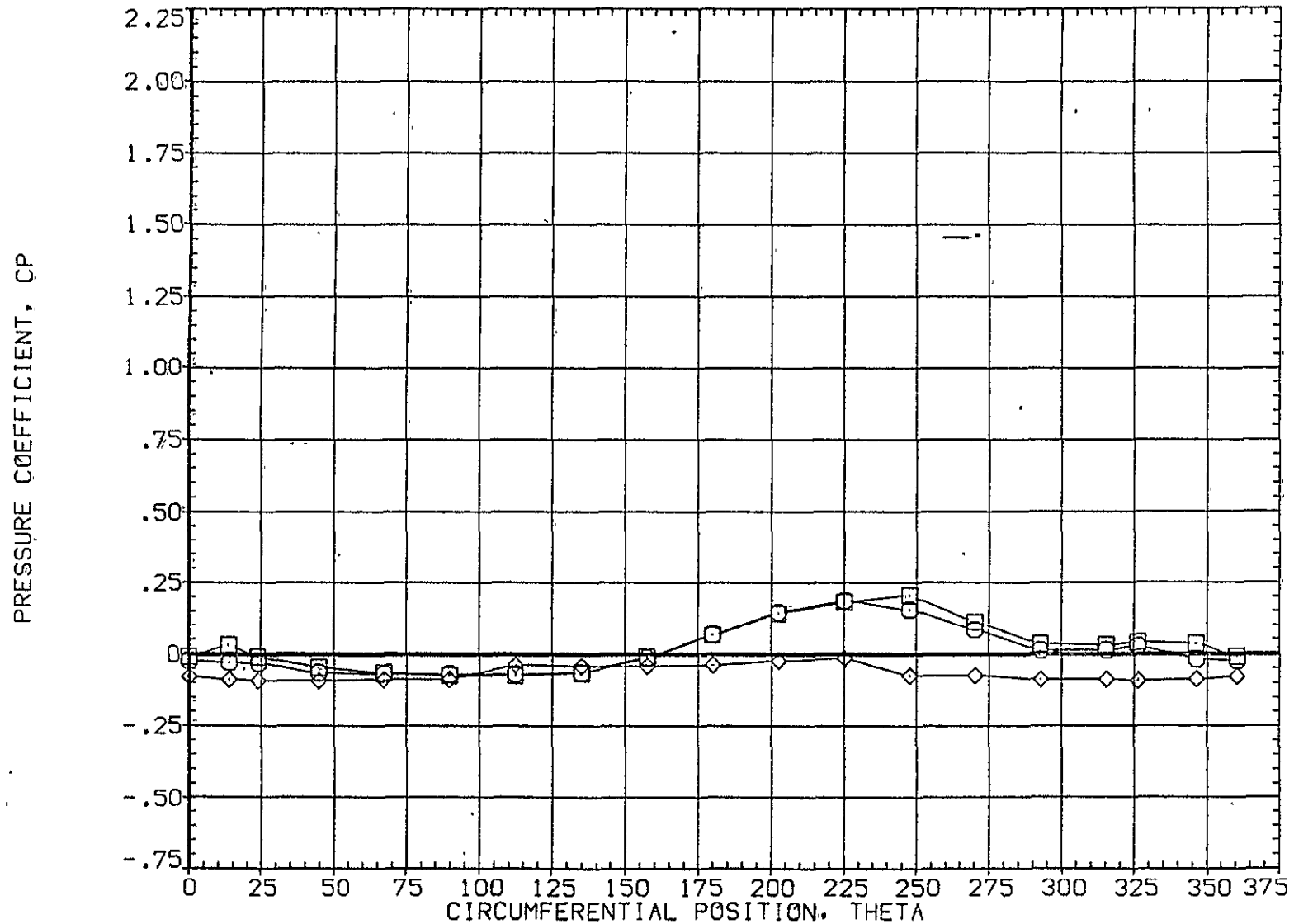
BETA
MOUNT.000
1.000OFFSET
PHI20.000
45.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	24.660	3.480
□	.108		
◇	.162		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 45.000

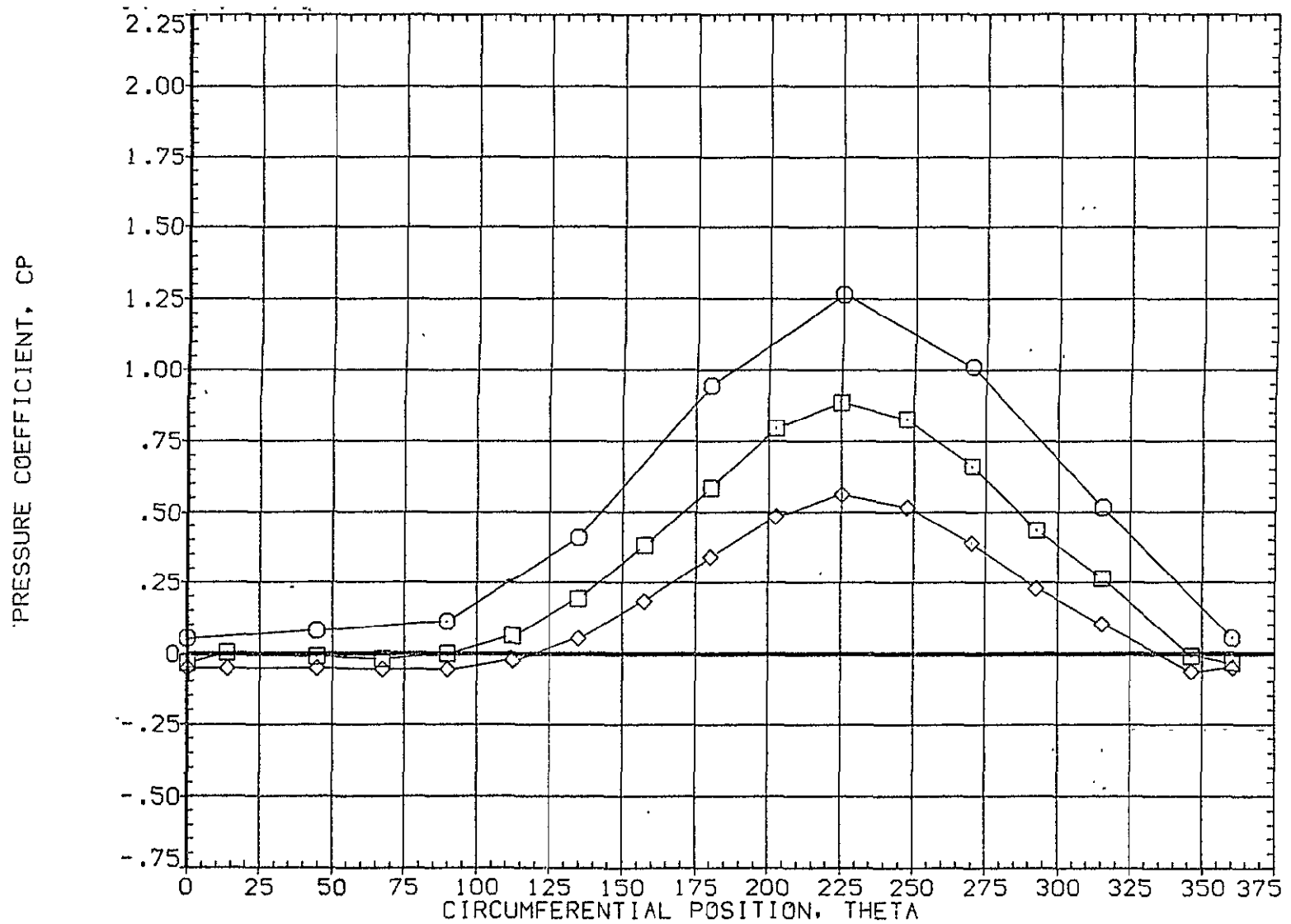


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

ALPHA

MACH

.216

24.660

3.480

.322

.518

PARAMETRIC VALUES

BETA

.000

OFFSET

20.000

MOUNT

1.000

PHI

45.000

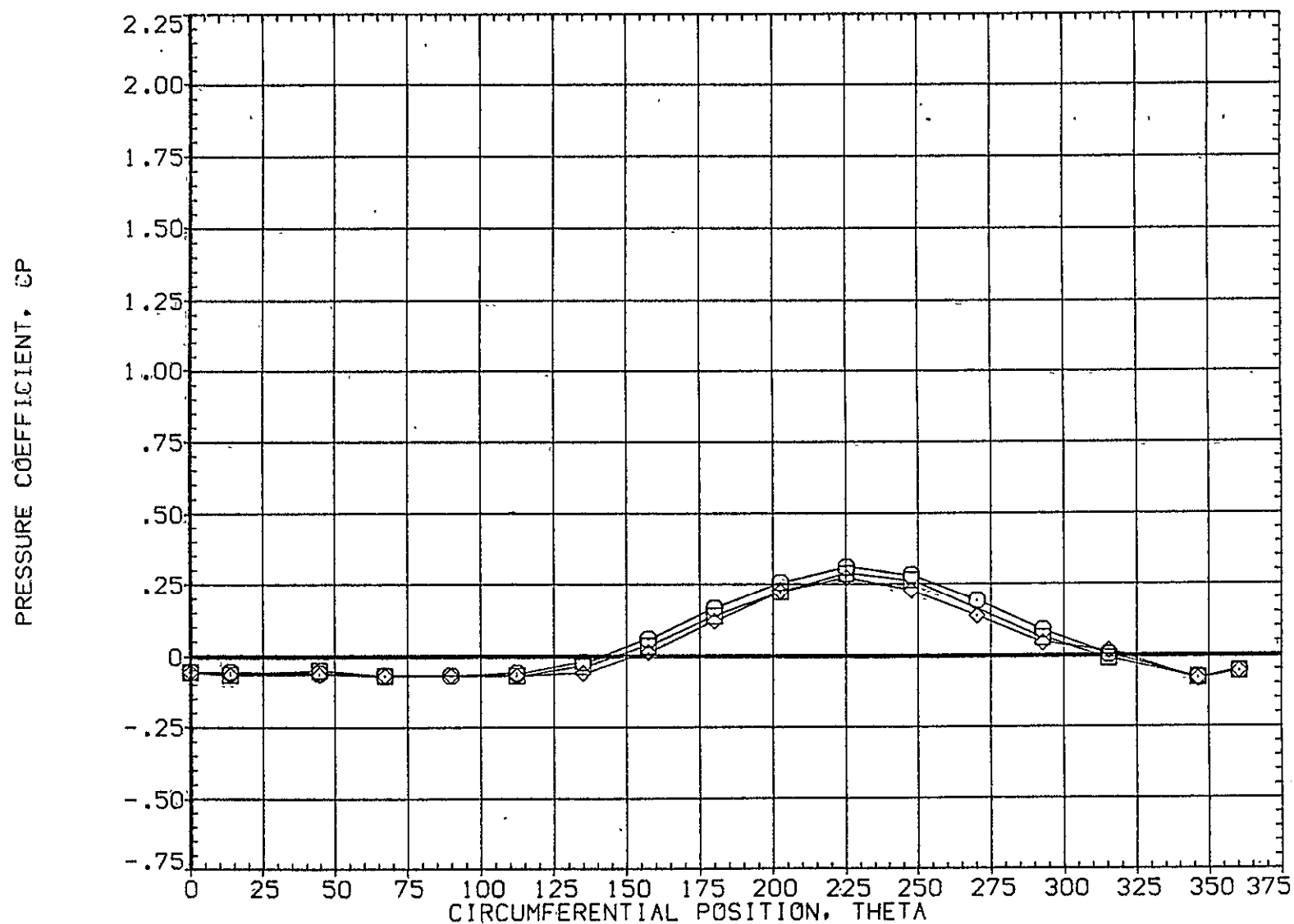


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK,

(P1A089)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	24.660	3.480	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	45.000
◇	.860						

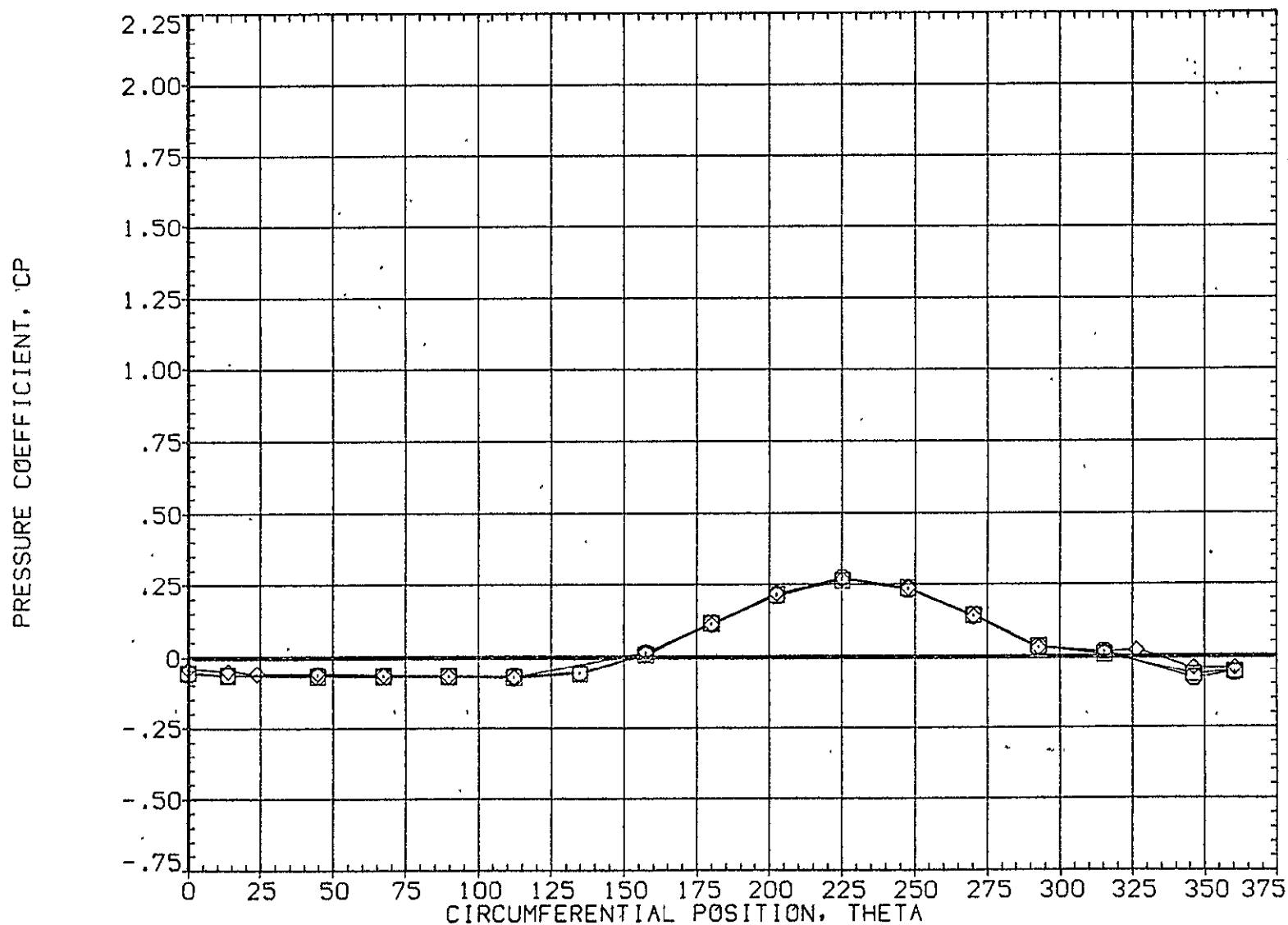


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

BETA
MOUNT

PARAMETRIC VALUES

.000
1.000OFFSET
PHI20.000
45.000

PRESSURE COEFFICIENT, CP

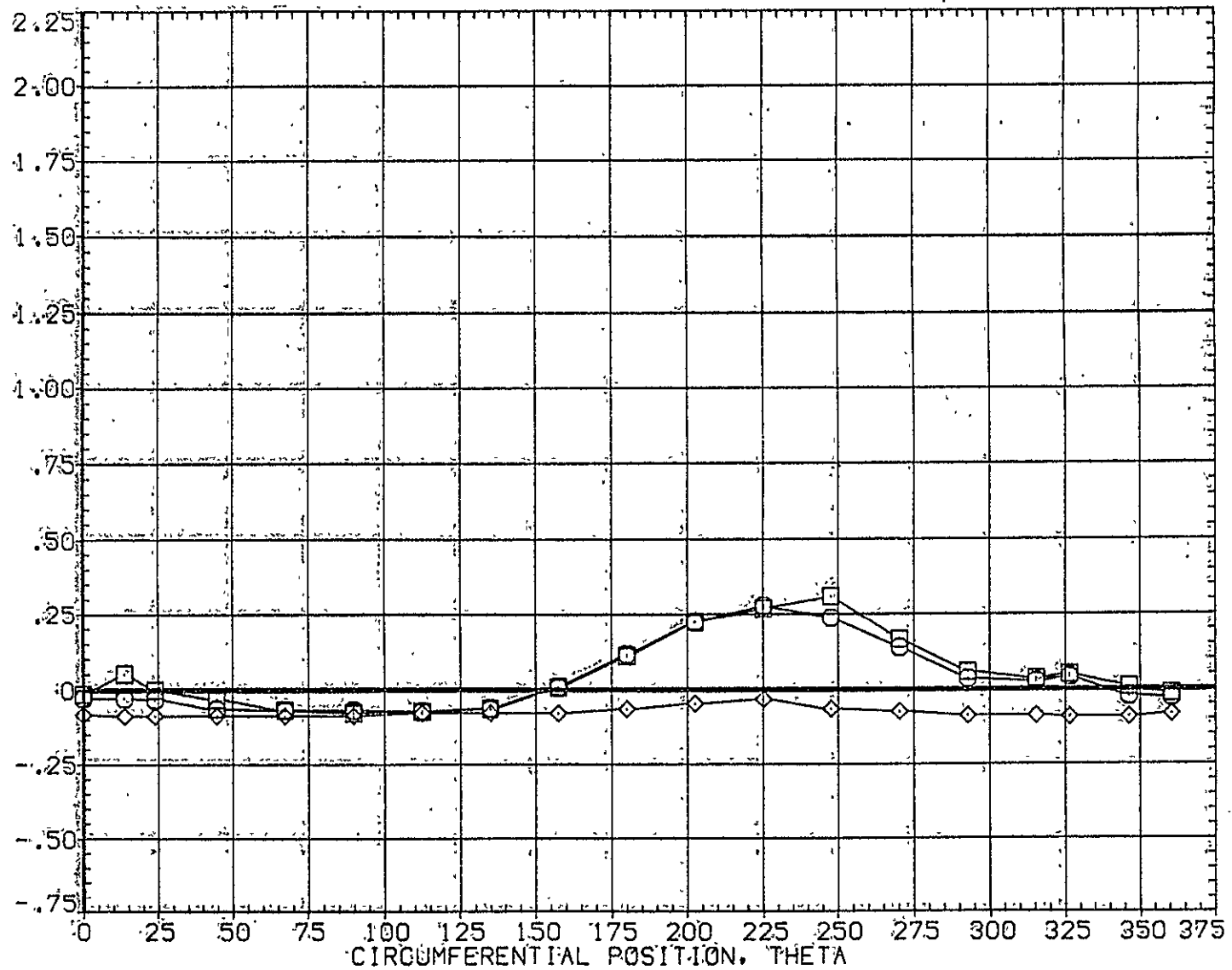


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

C-4

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A090)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	28.700	3.480	MOUNT	.000 OFFSET 20.000
□	.108				1.000 PHI 45.000
◇	.162				

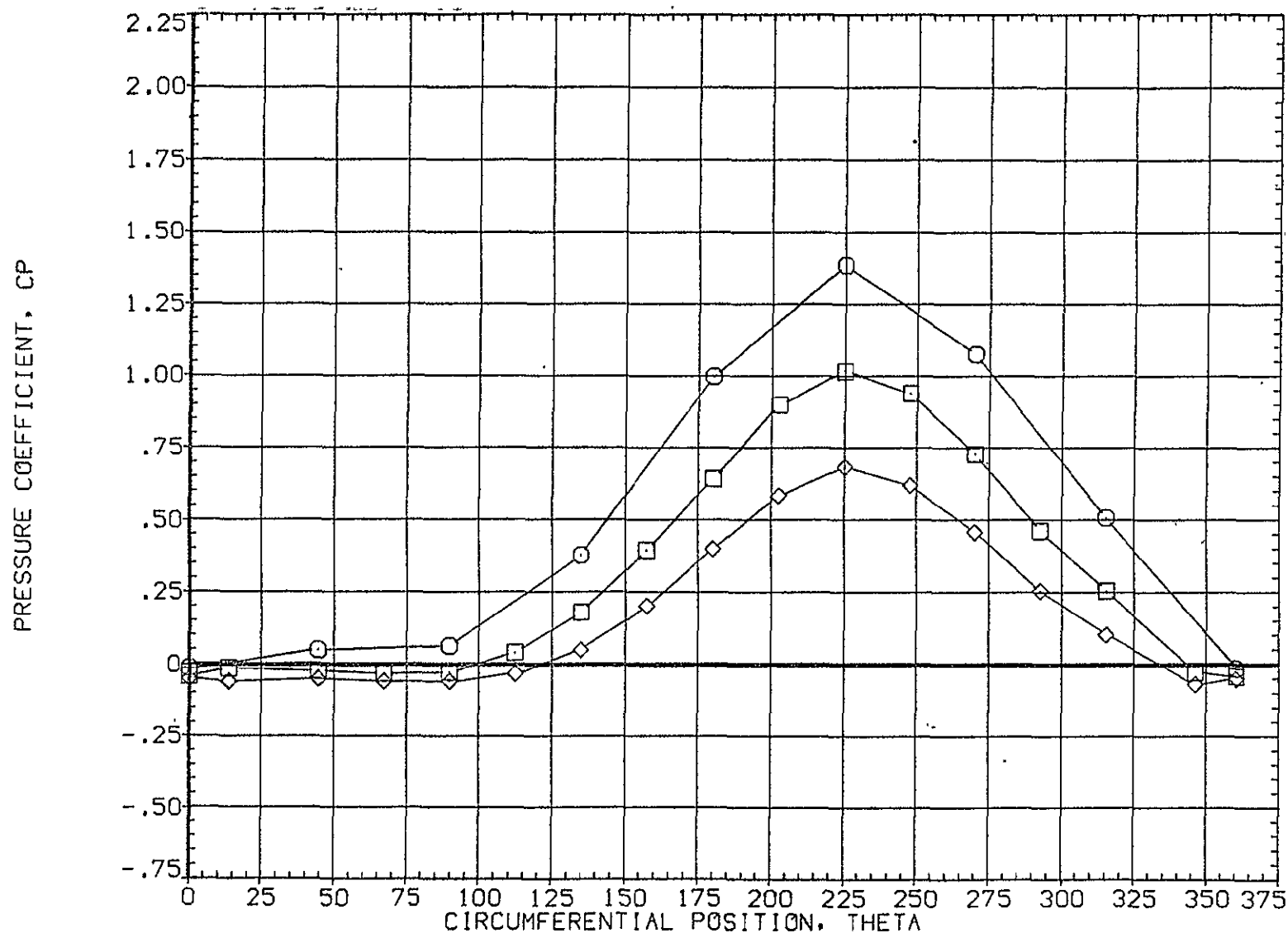


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

BETA
MOUNT

PARAMETRIC VALUES

.000
1.000OFFSET
PHI20.000
45.000

PRESSURE COEFFICIENT, CP

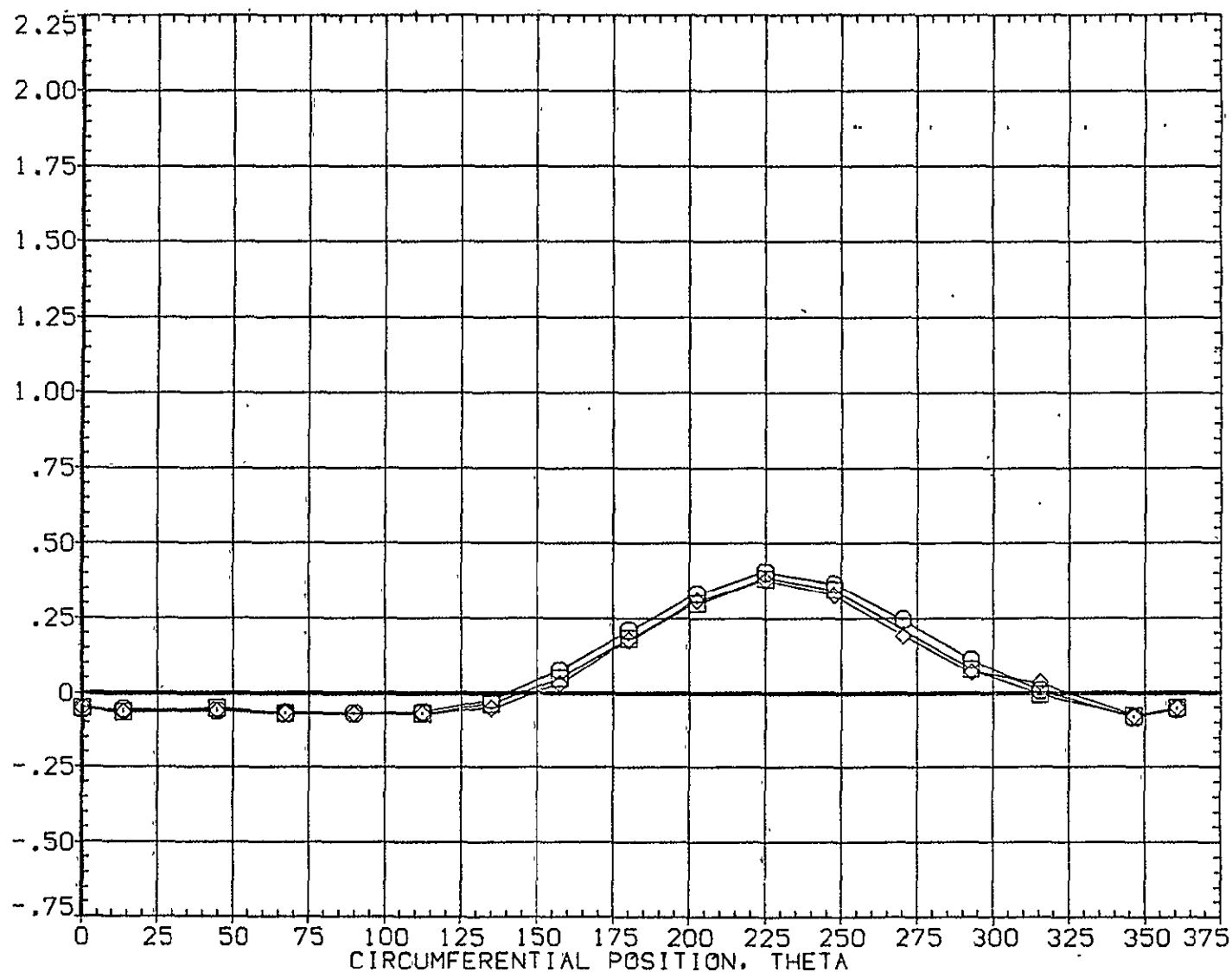


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A090)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	28.700	3.480	BETA	.000	OFFSET	20.000
□	.735			MOUNT	1.000	PHI	45.000
◇	.860						

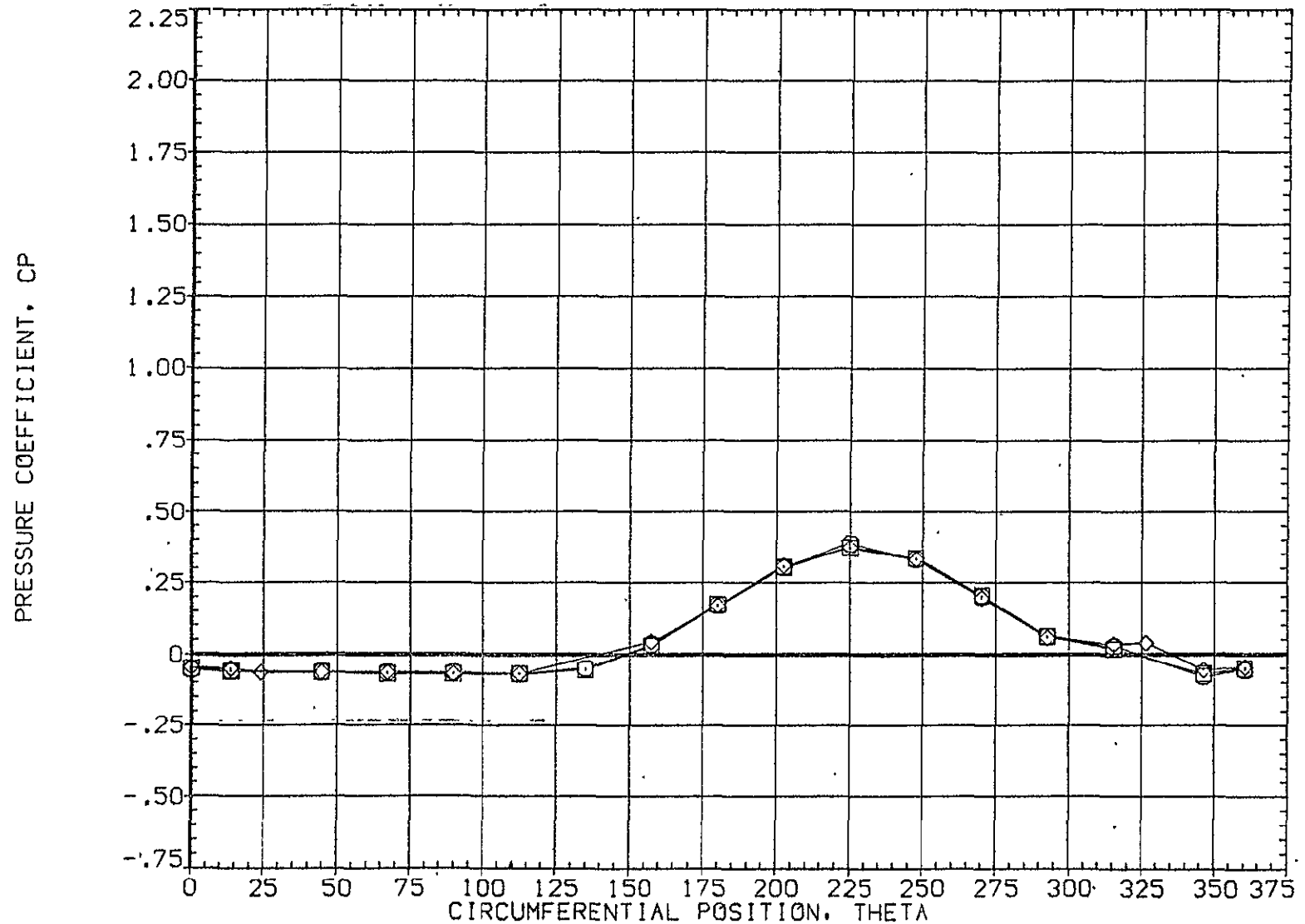


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	28.700	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	45.000

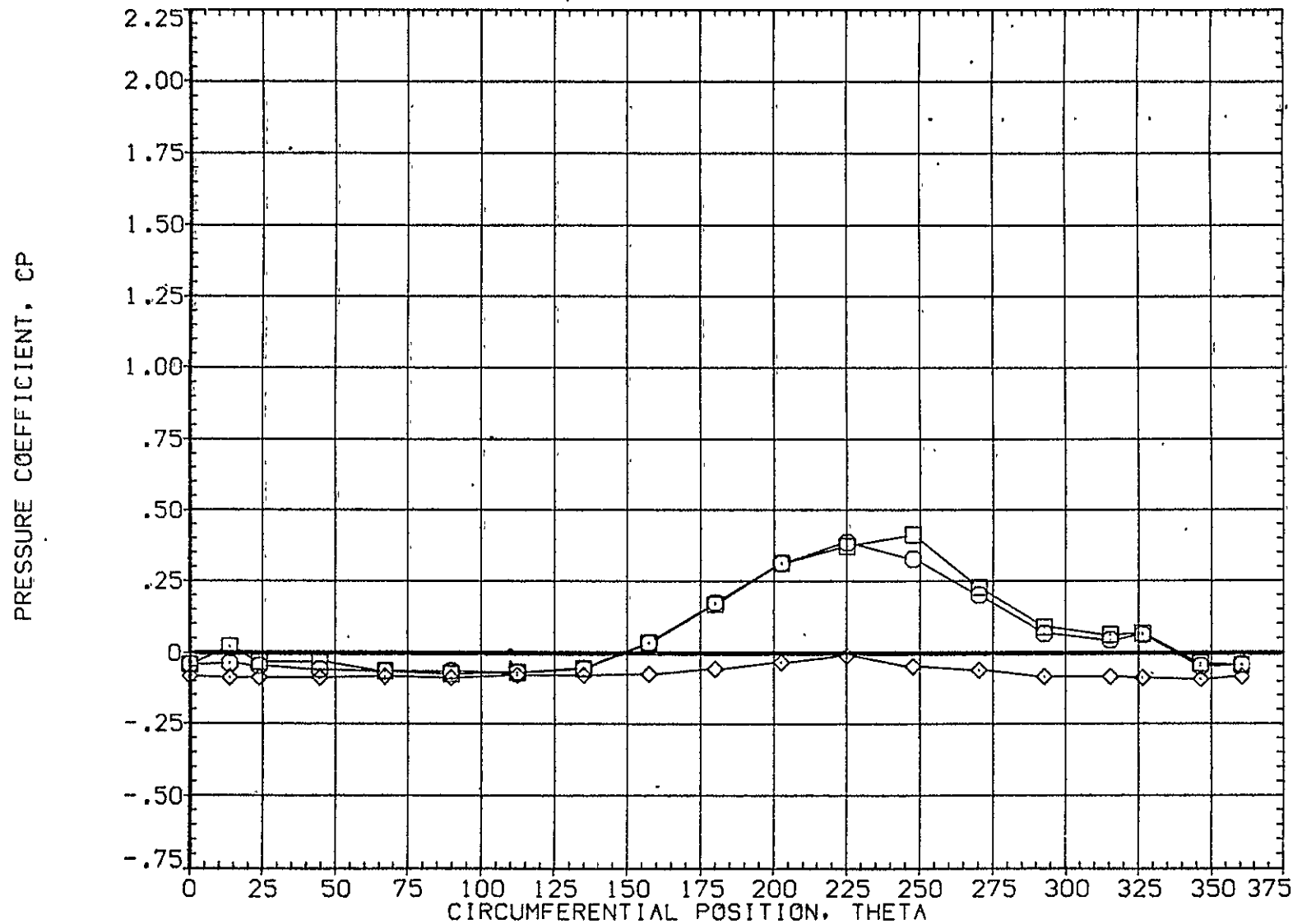


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-8.360	3.480	.000		.000	
□	.108			1.000	PHI	90.000	
◇	.162						

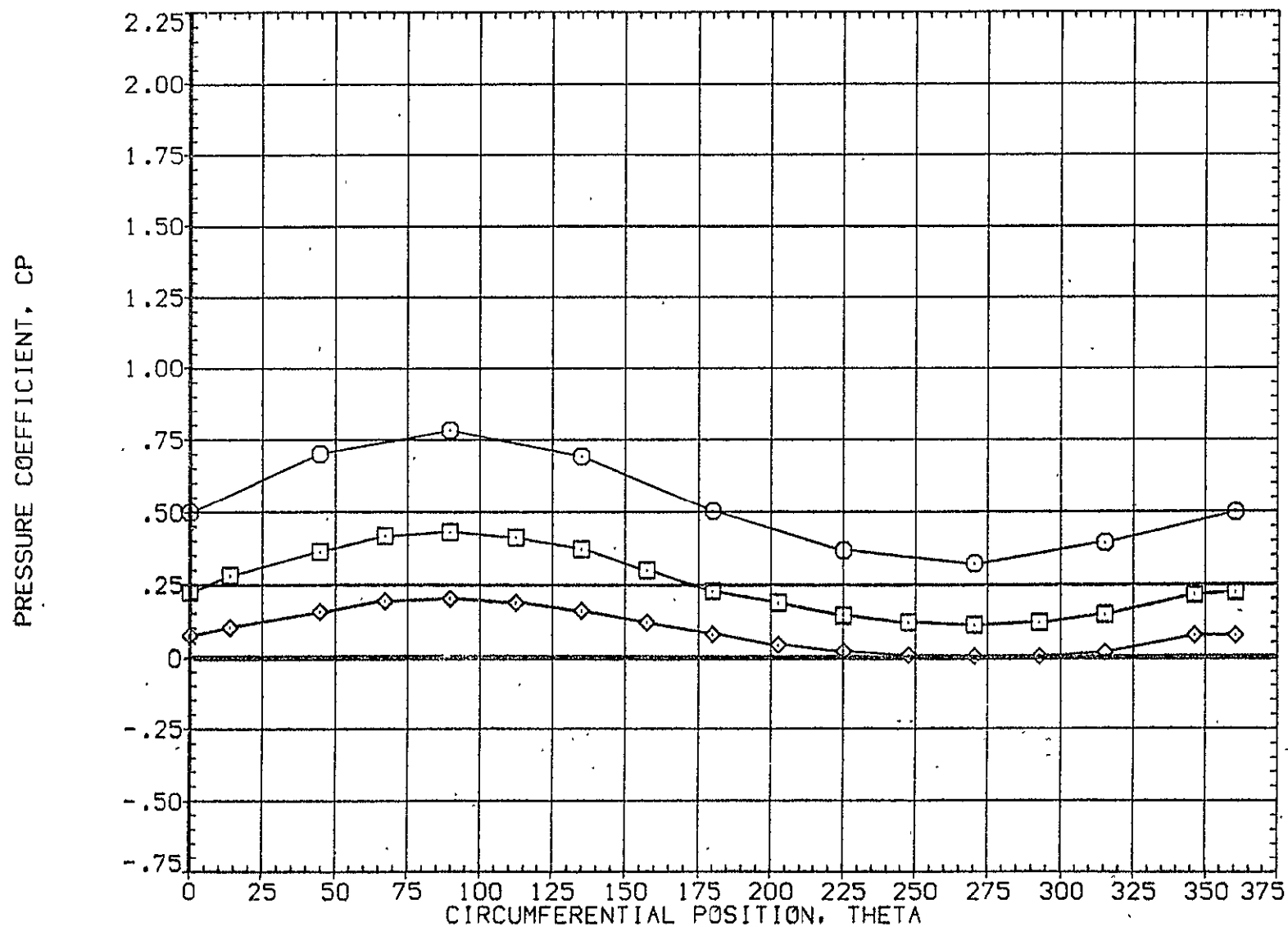


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.216	-8.360	3.480	.000	.000	.000
□	.322			1.000	90.000	
◇	.518					

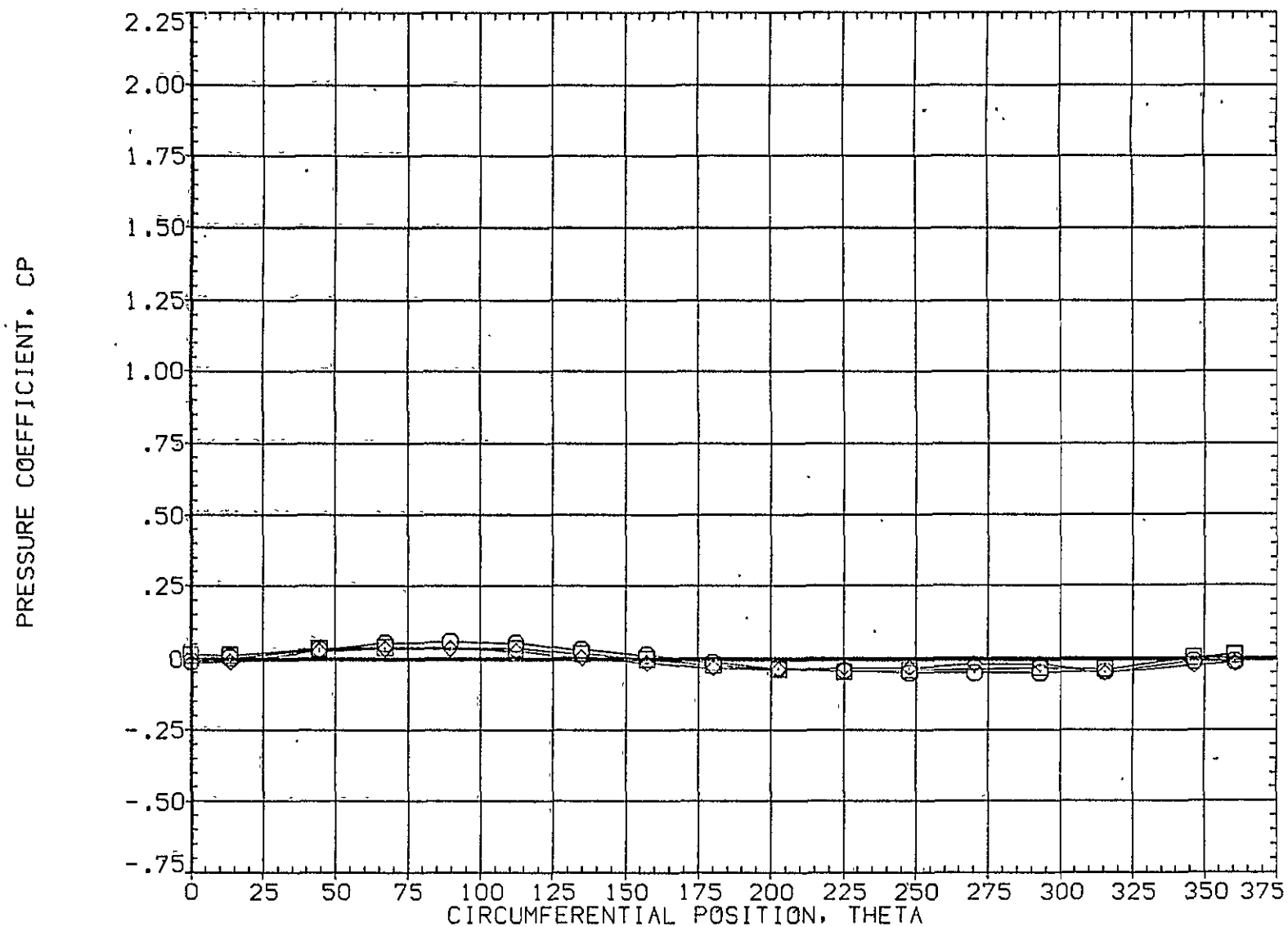


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A011)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-8.360	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	90.000
◇	.860						

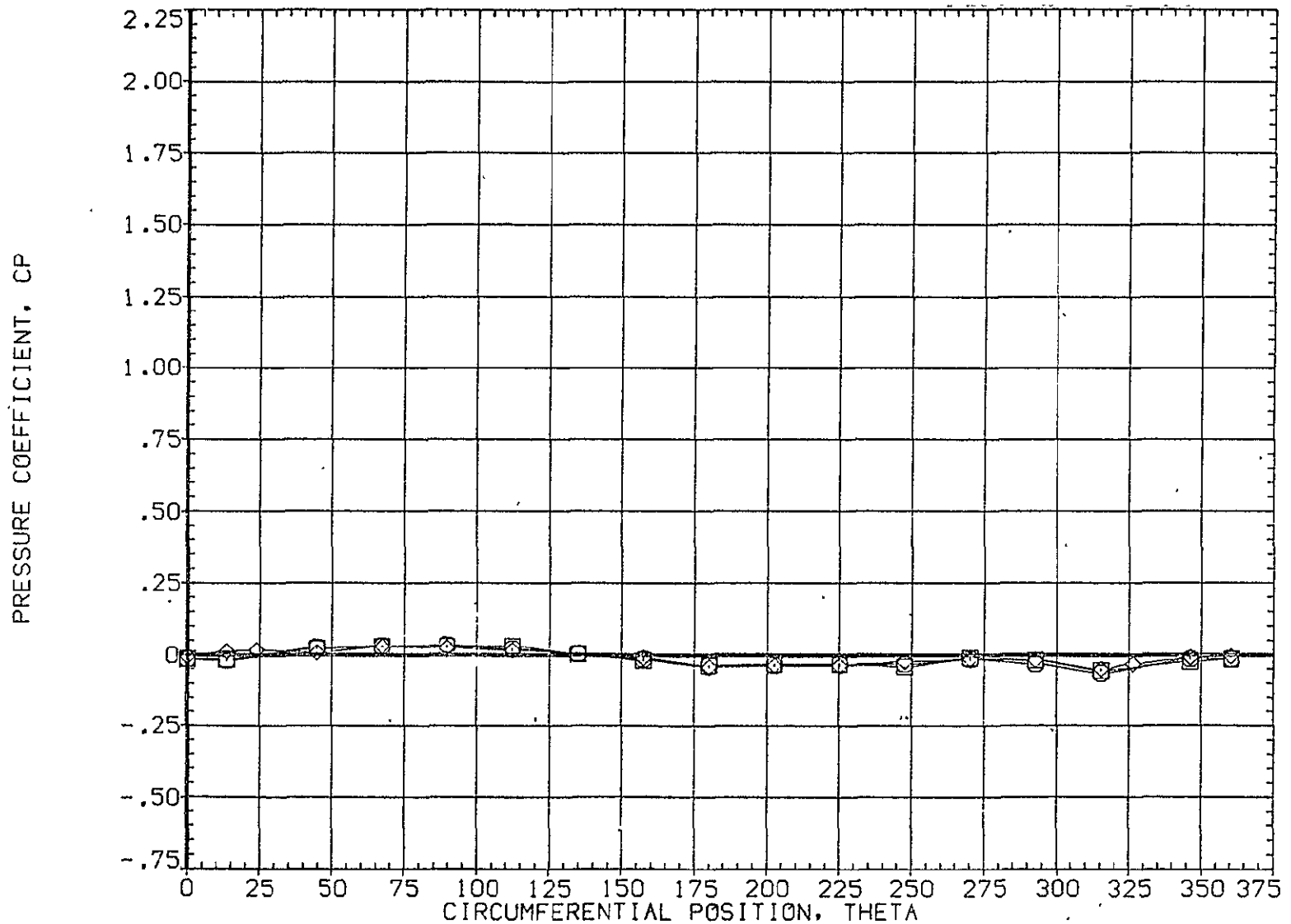


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-8.360	3.480	.000		.000
□	.923			1.000	PHI	90.000
◇	.954					

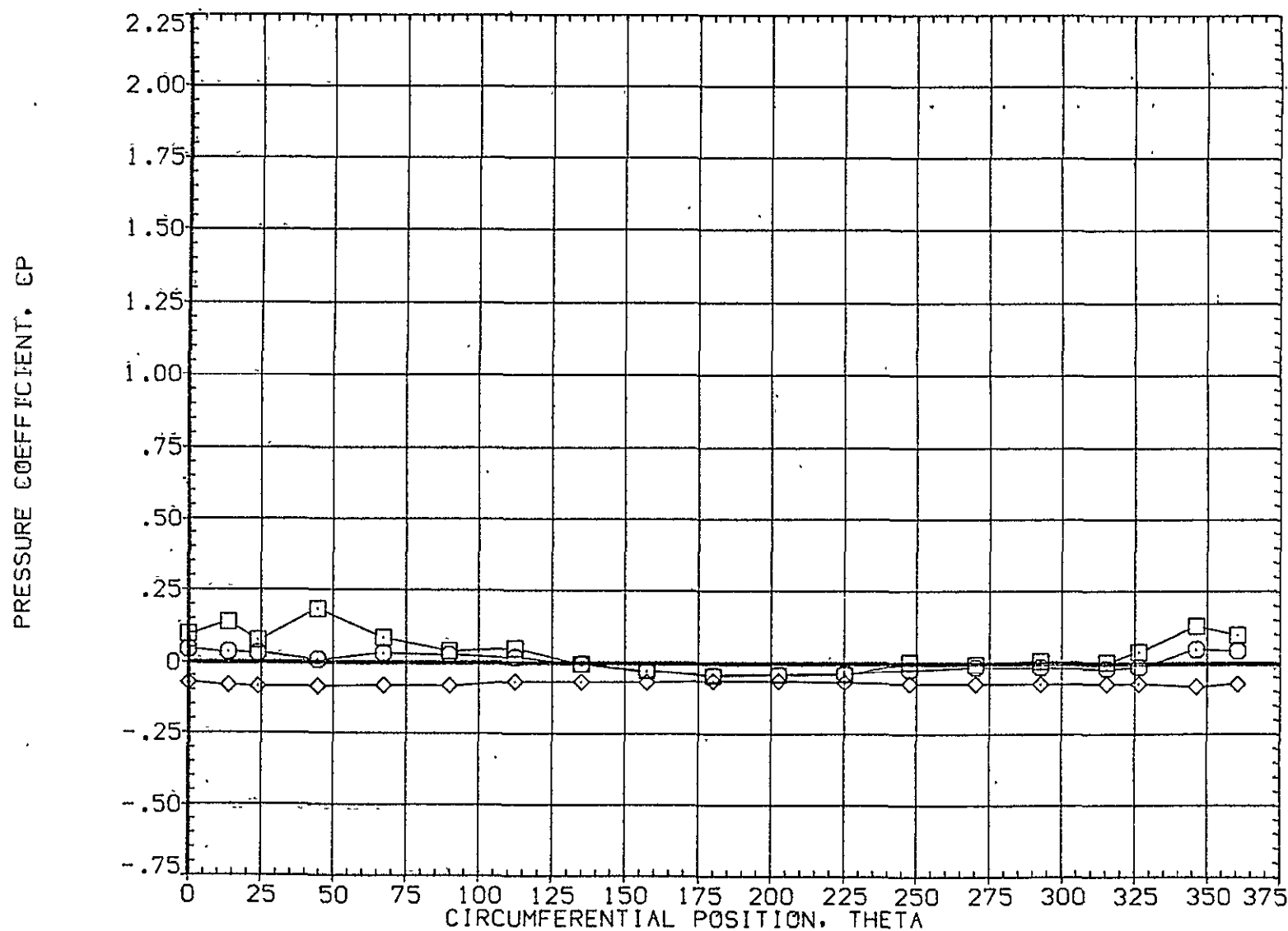


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	-4.330	3.480	MOUNT	1.000	PHI	90.000
□	.108						
◇	.162						

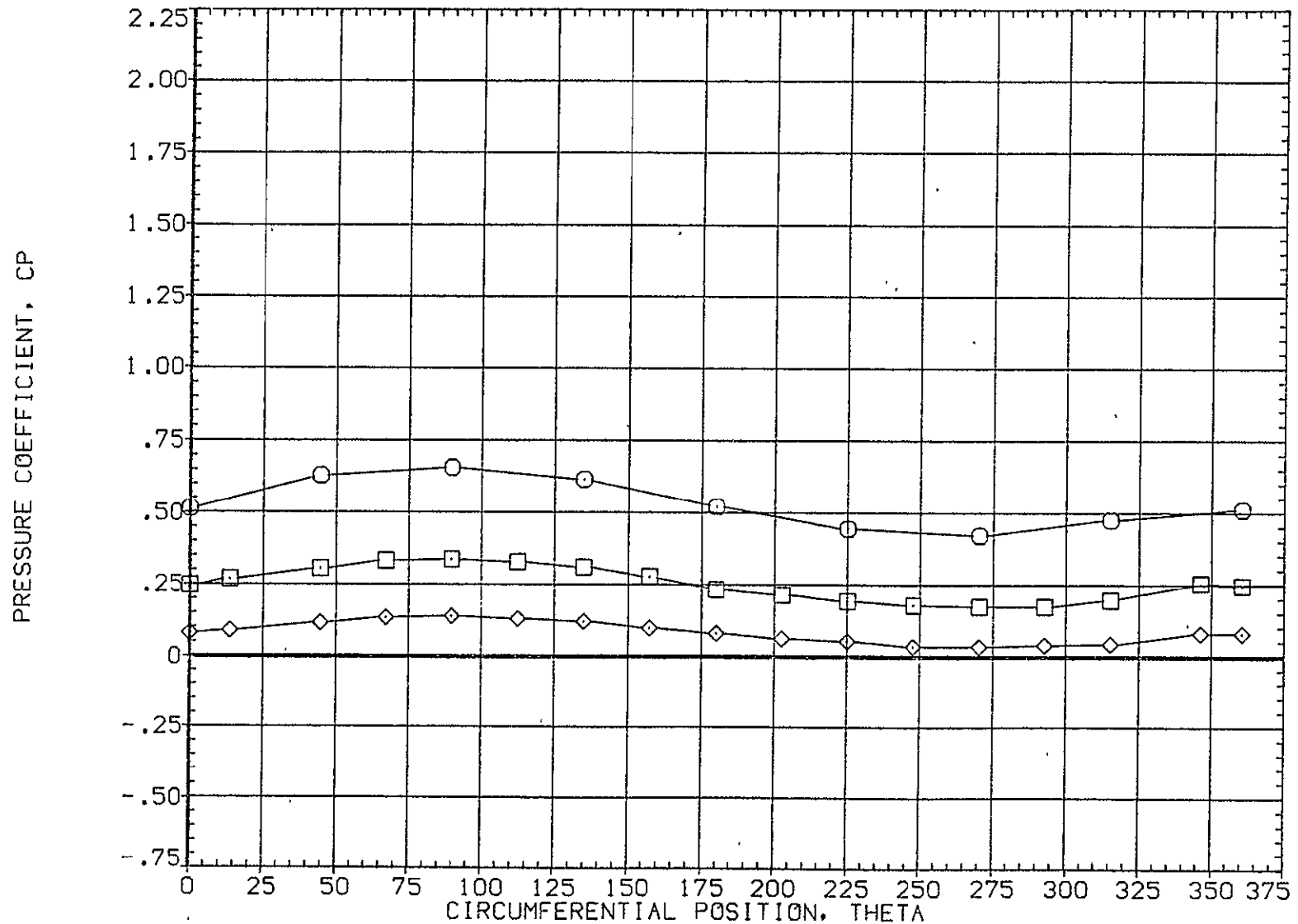


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-4.330	3.480	MOUNT	.000	.000
□	.322				1.000	PHI 90.000
◇	.518					

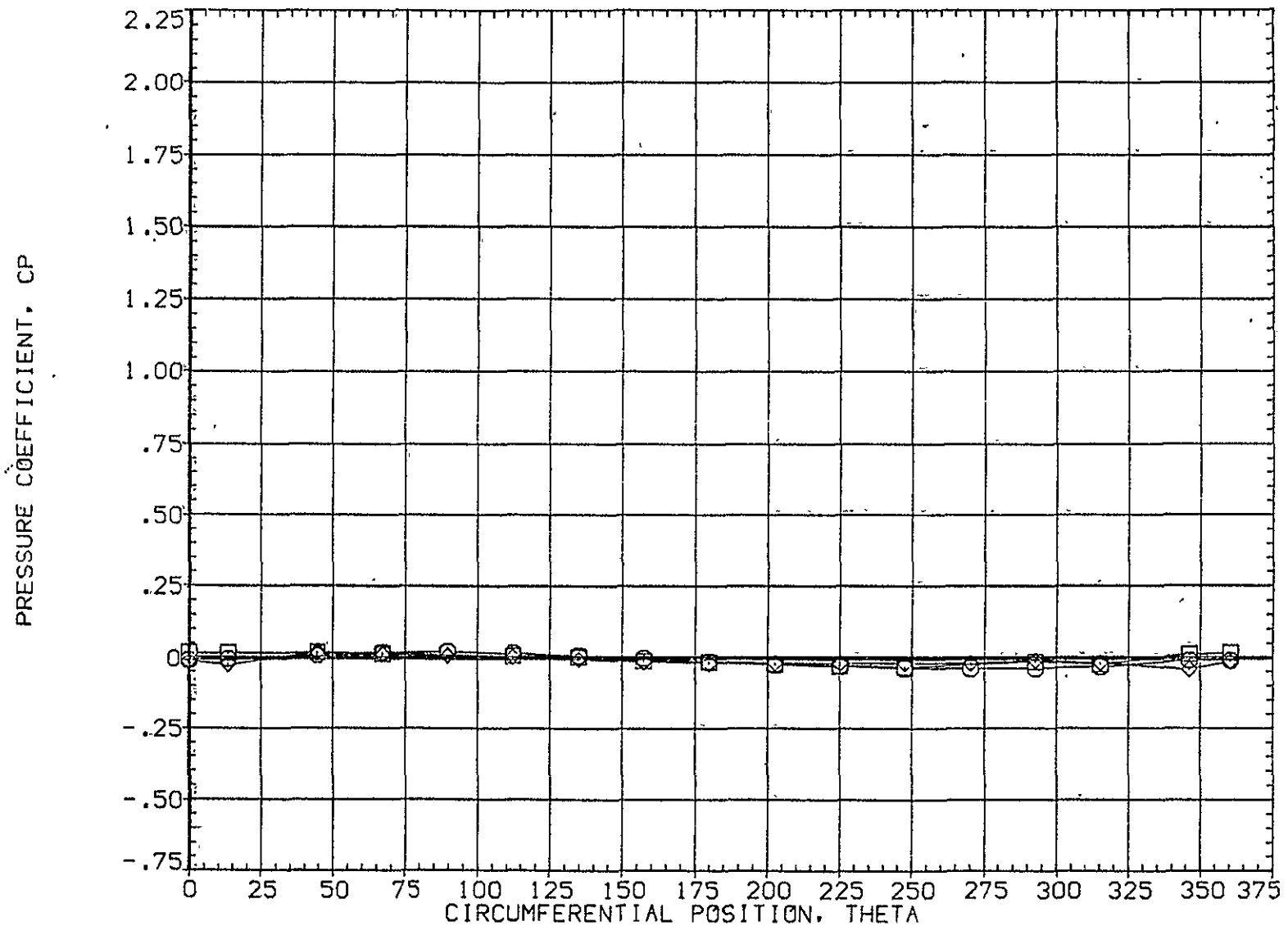


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A012)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI	PHI
○	.610	-4.330	3.480	.000		.000		
□	.735			1.000				
◇	.860							90.000

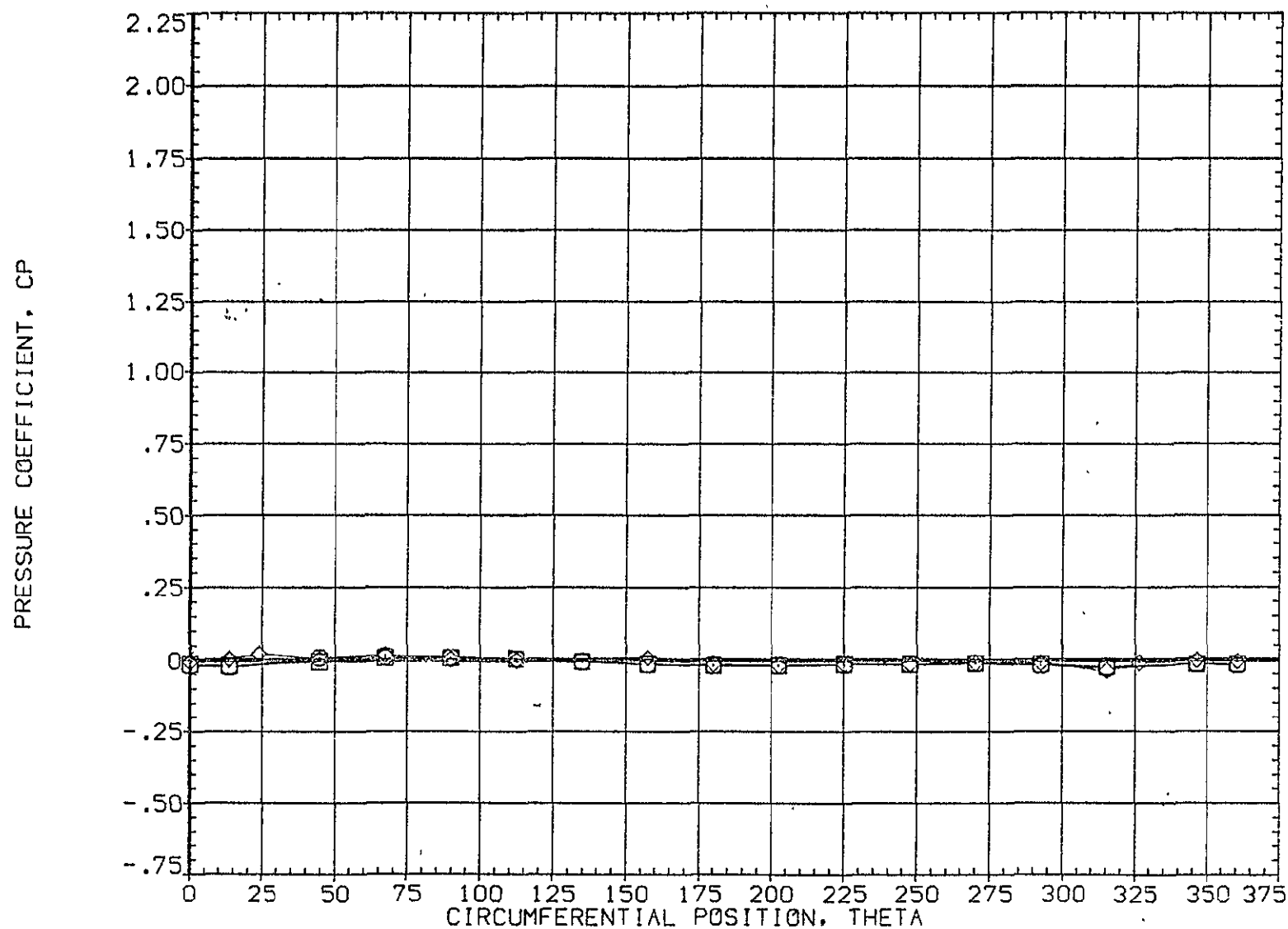


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-4.330	3.480	.000	.000	.000
□	.923			1.000	PHI	90.000
◇	.954					

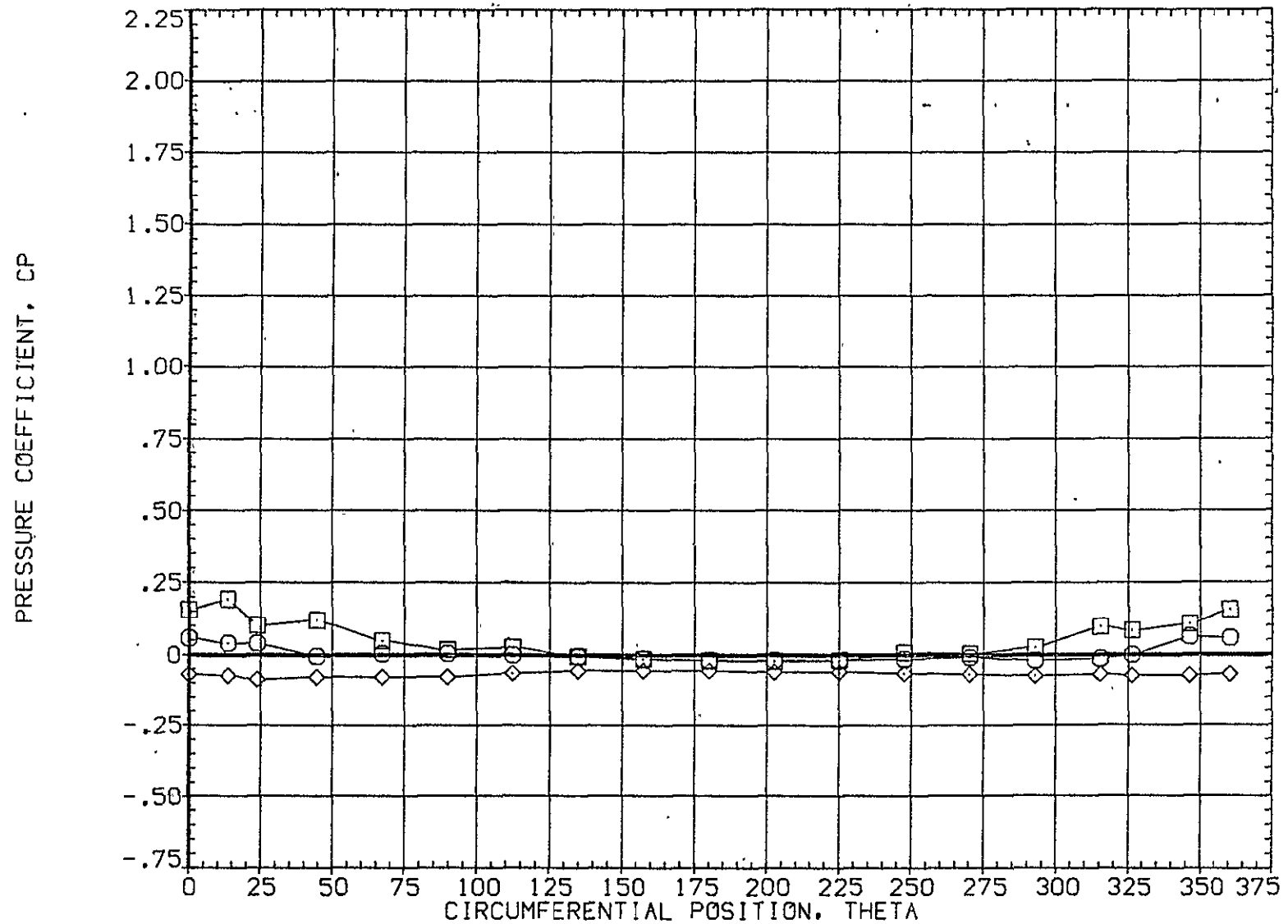


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A013)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-.280	3.480	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	90.000
◇	.162						

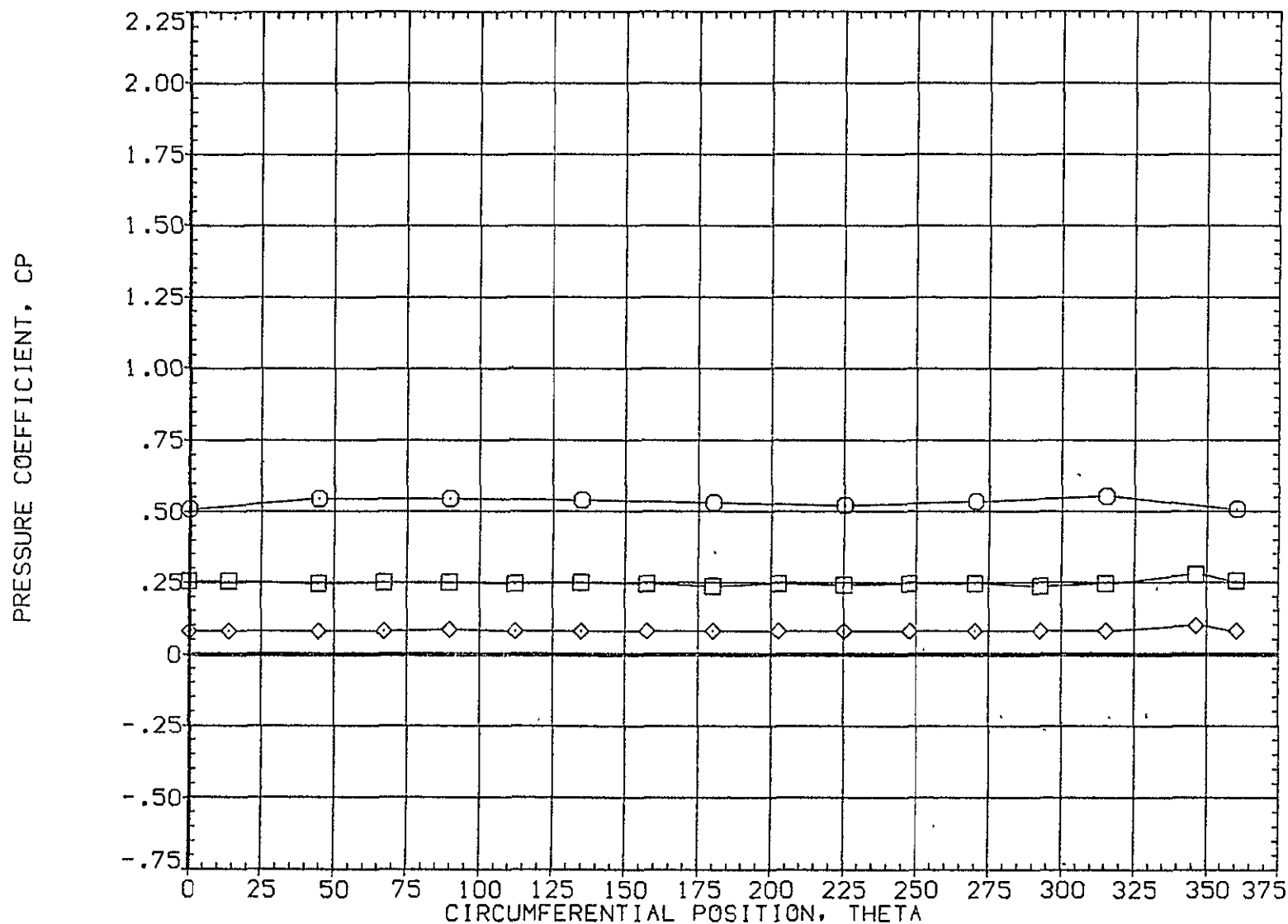


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.216	-.280	3.480	BETA	.000	OFFSET	.000
□	.322			MOUNT	1.000	PHI	90.000
◇	.518						

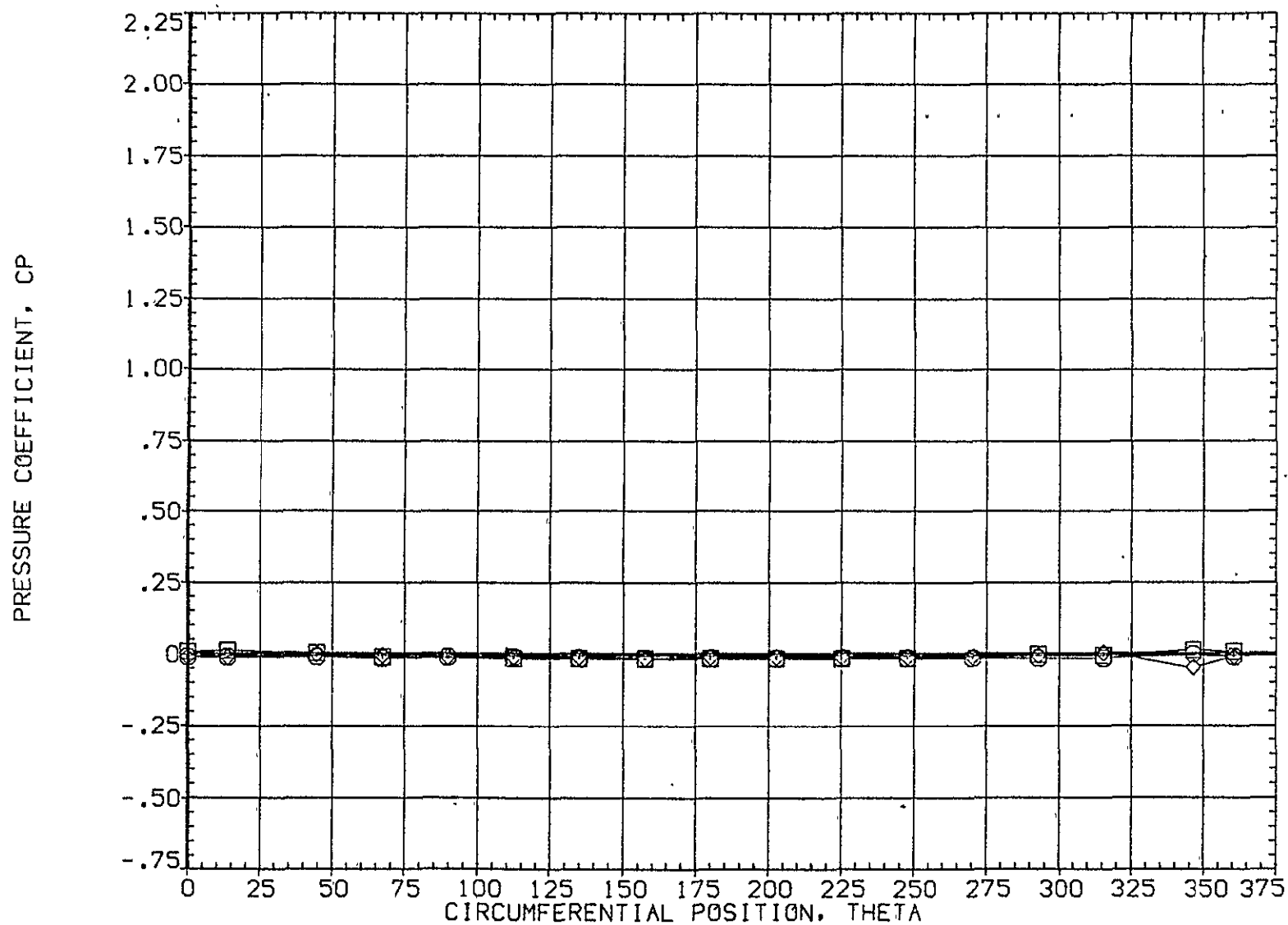


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A013)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI	90.000
○	.610	-.280	3.480	MOUNT	.000			
□	.735				1.000			
◇	.860							

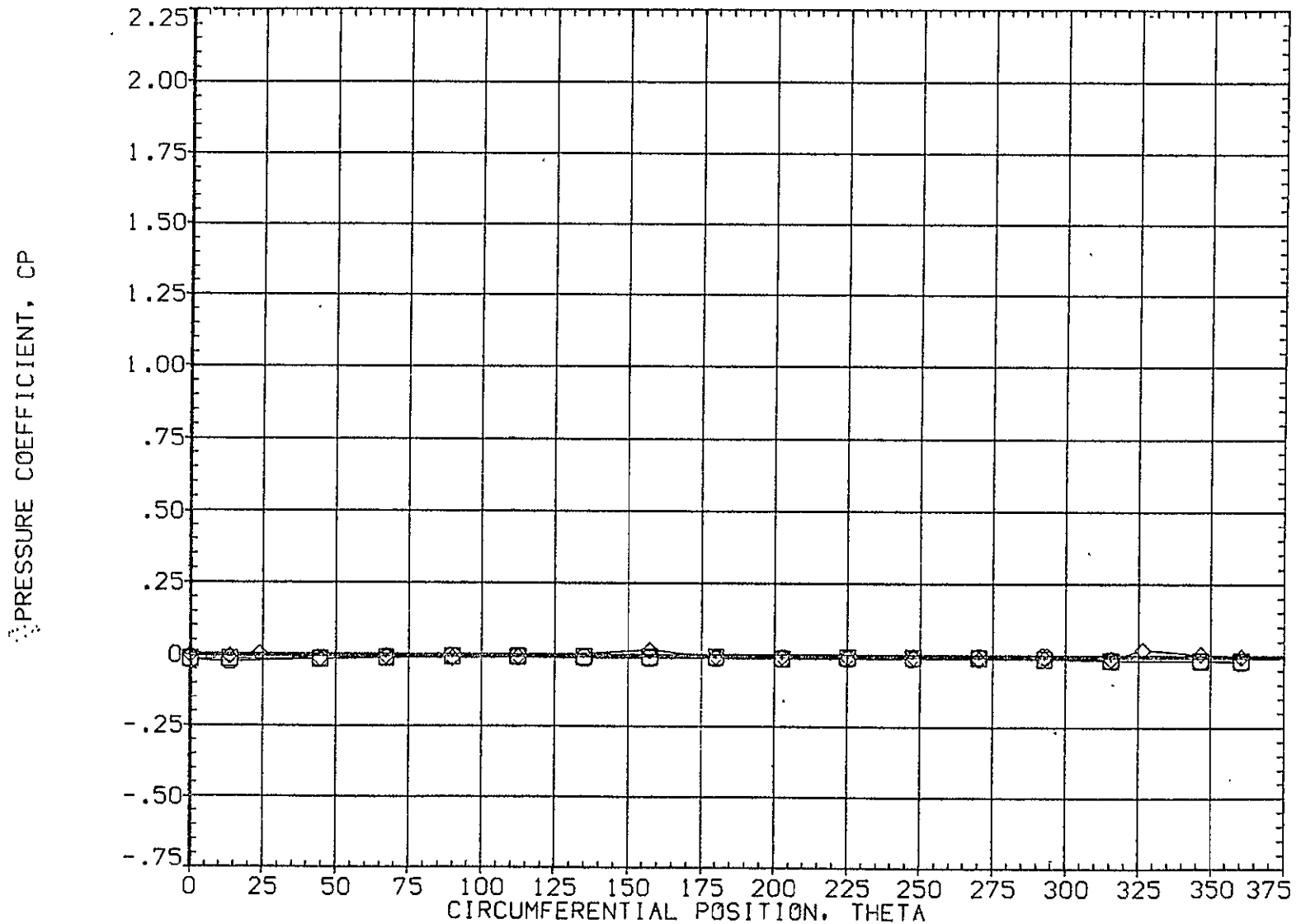


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

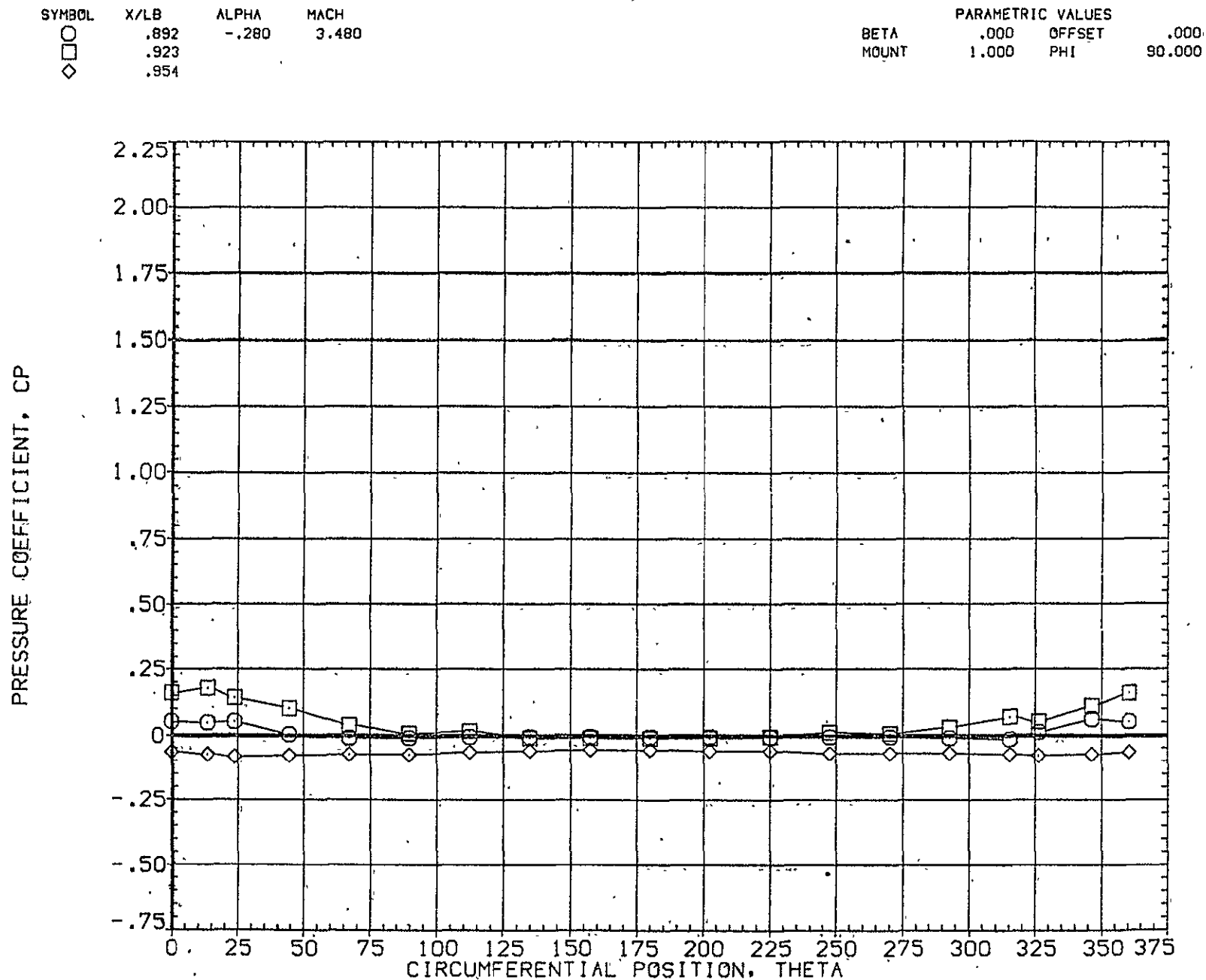


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	3.770	3.480	.000	PHI	.000
□	.108			1.000		90.000
◇	.162					

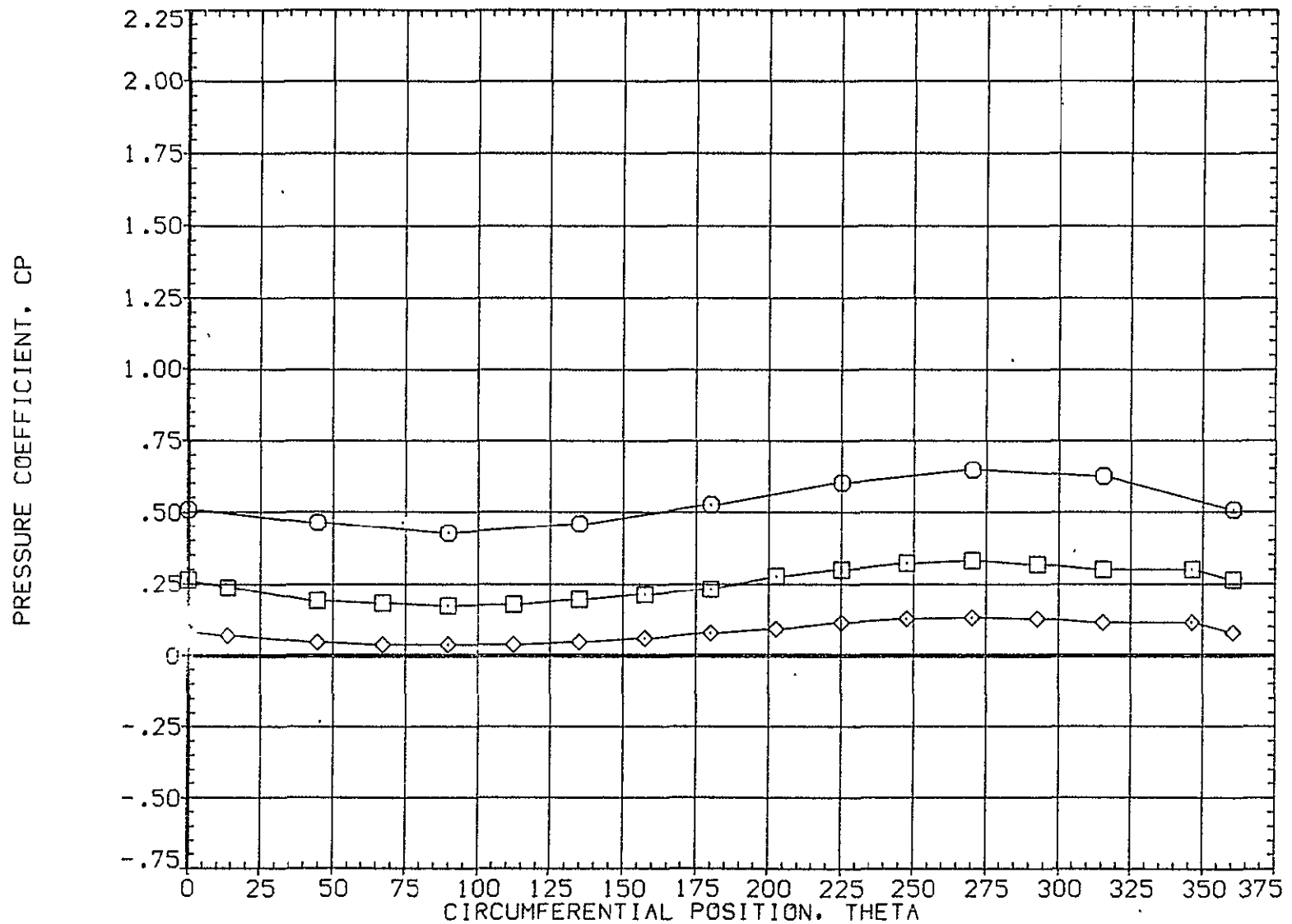


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	3.770	3.480	.000		.000
□	.322			1.000	PHI	90.000
◇	.518					

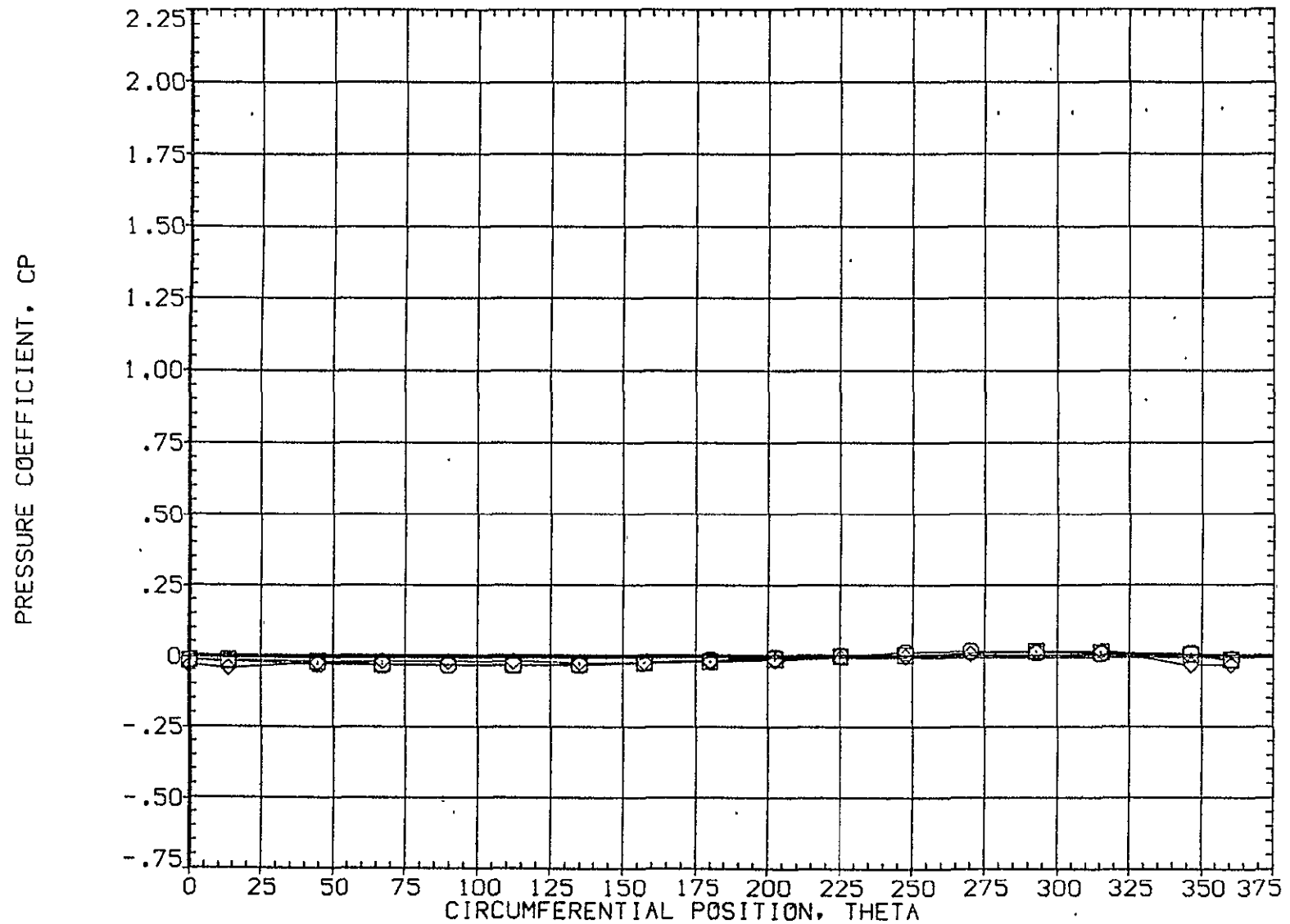


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A014)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	3.770	3.480	BETA	.000	OFFSET	.000
□	.735			MOUNT	1.000	PHI	90.000
◇	.860						

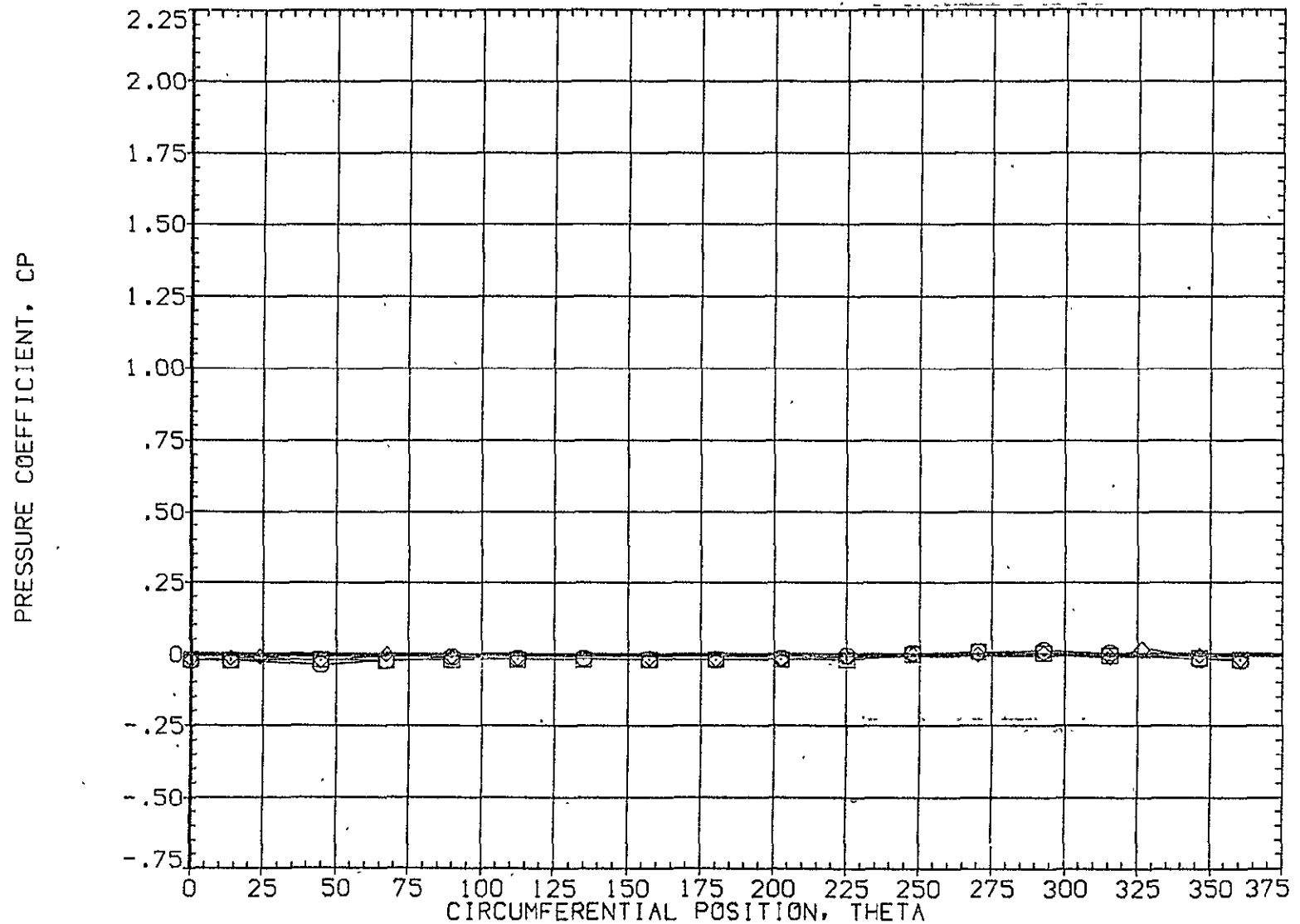


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	3.770	3.480	1.000	PHI	.000	.000
□	.923			1.000		90.000	
◇	.954						

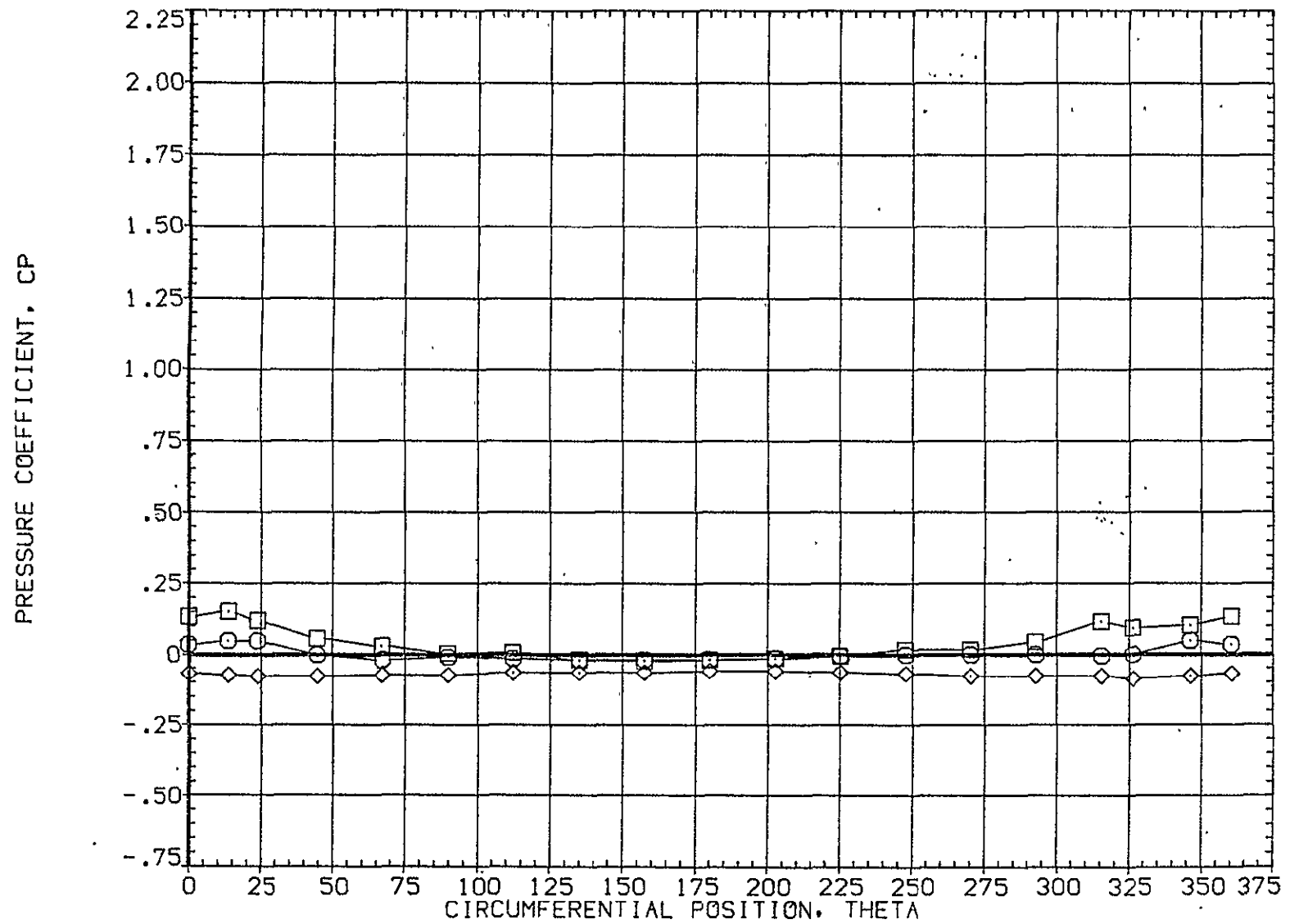


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A015)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	7.800	3.480	.000	OFFSET .000
□	.108			1.000	PHI 90.000
◇	.162				

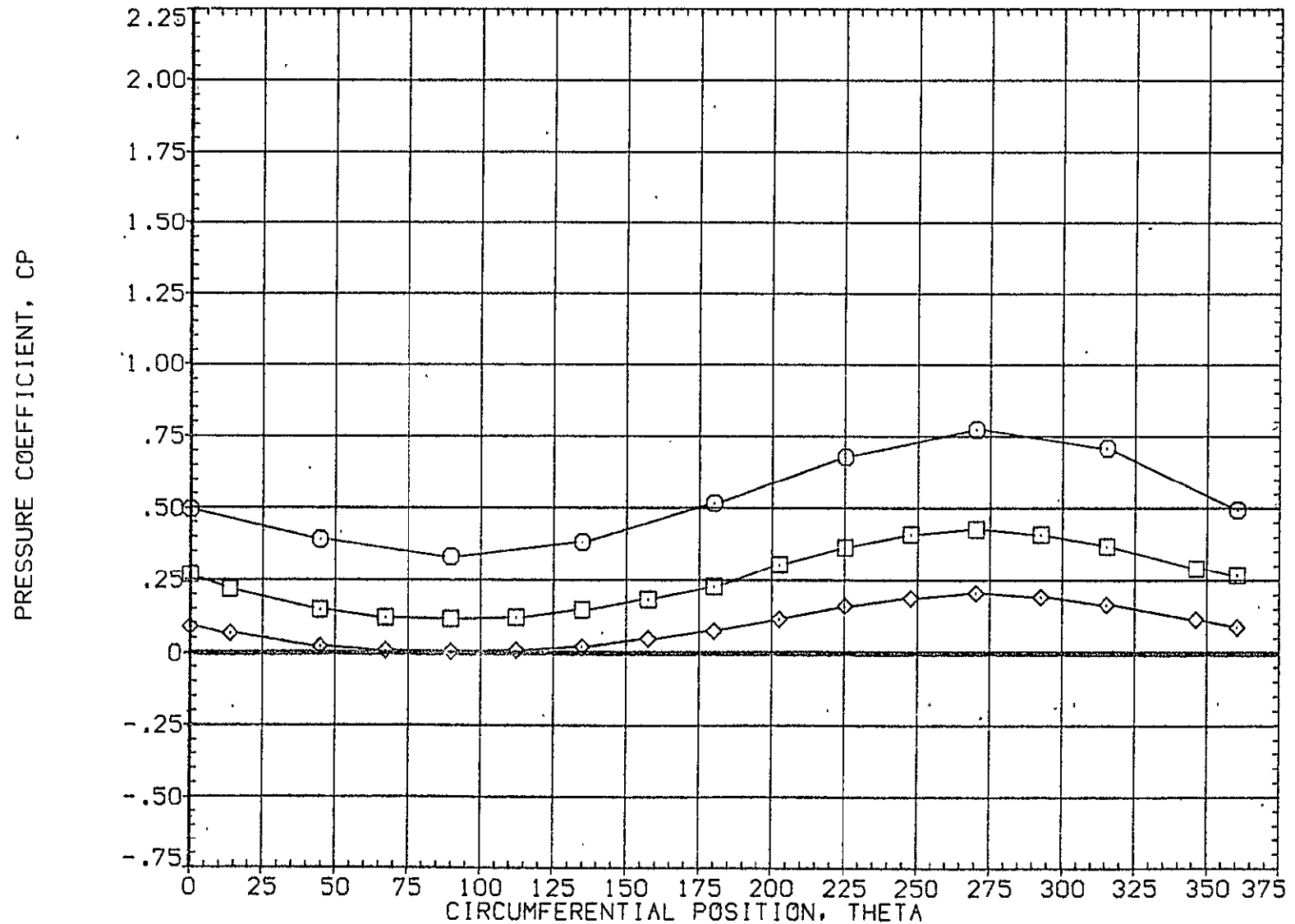


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 90.000
○	.216	7.800	3.480			
□	.322					
◇	.518					

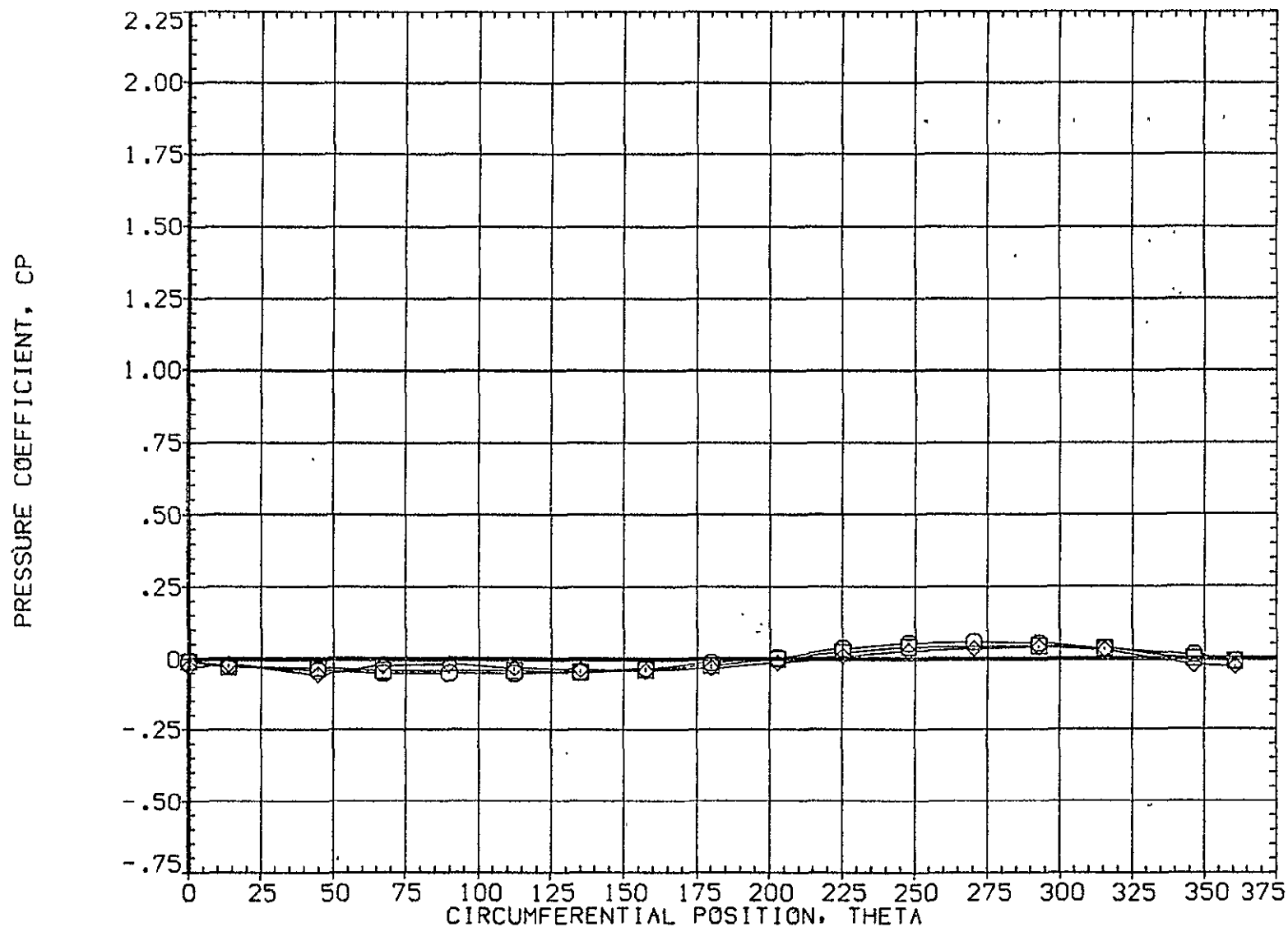


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A015)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	7.800	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	90.000
◇	.860						

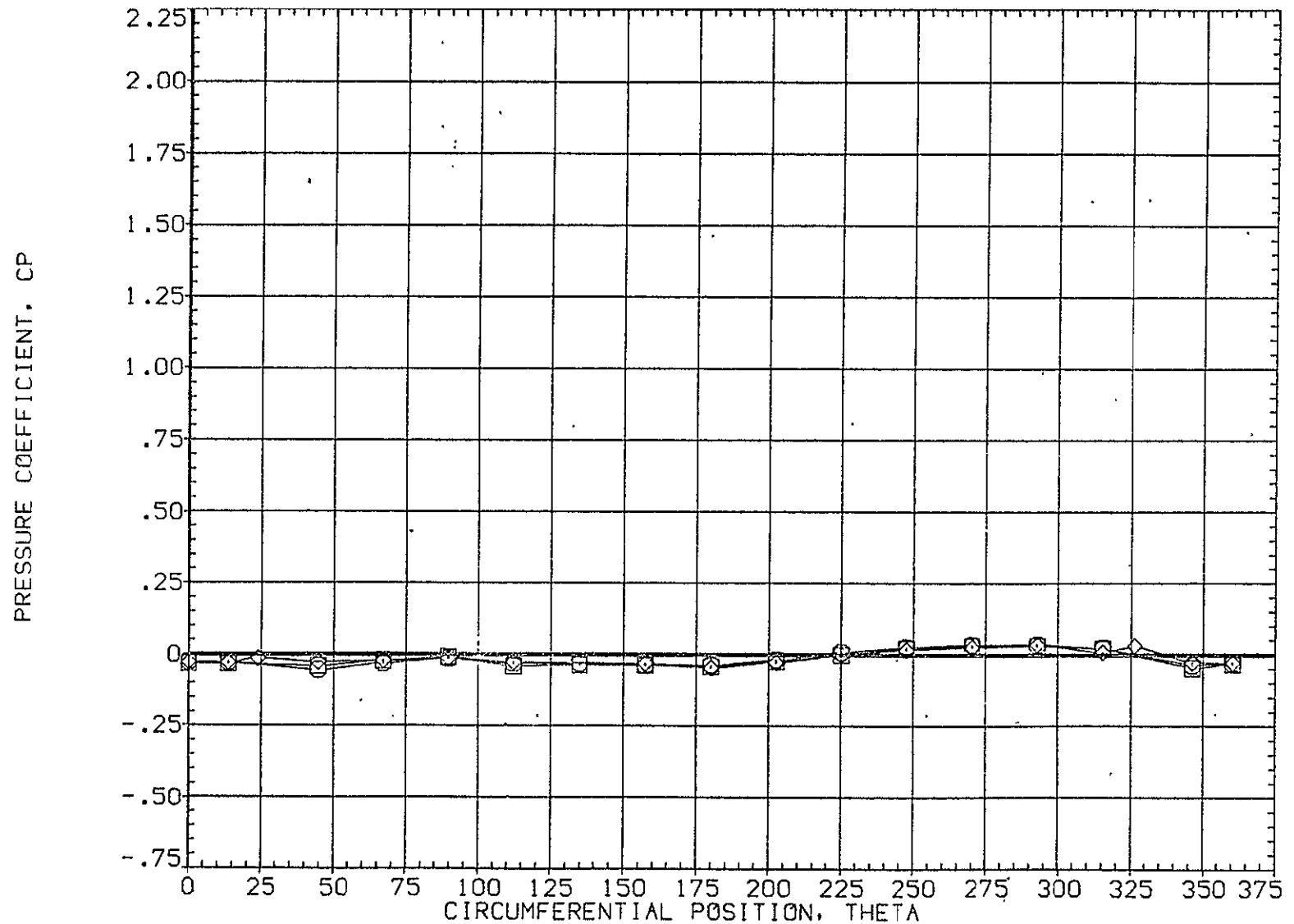


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 90.000
○	.892	7.800	3.480			
□	.923					
◇	.954					

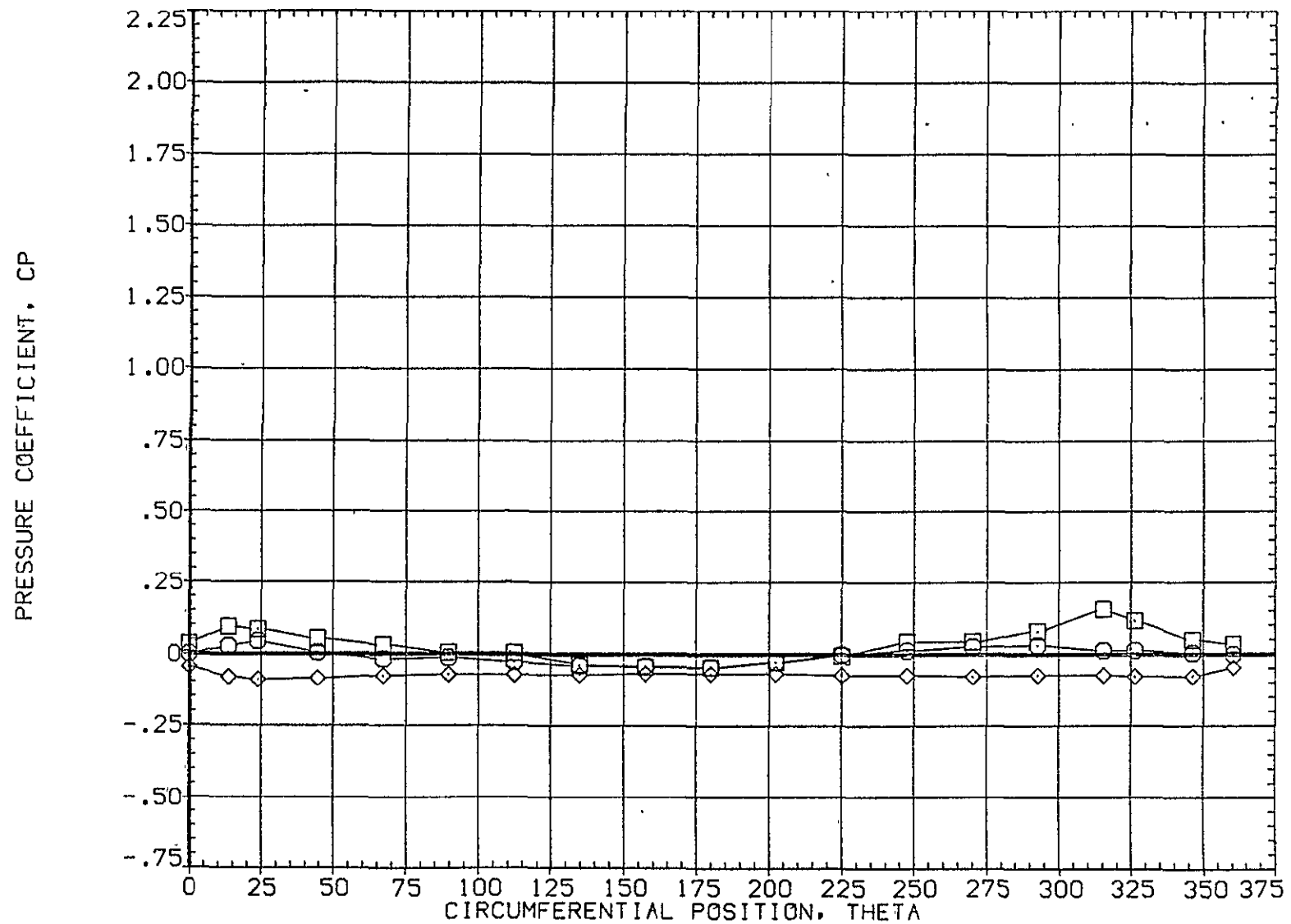


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A016)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	12.520	3.480	.000	OFFSET 20.000
□	.108			1.000	PHI 90.000
◇	.162				

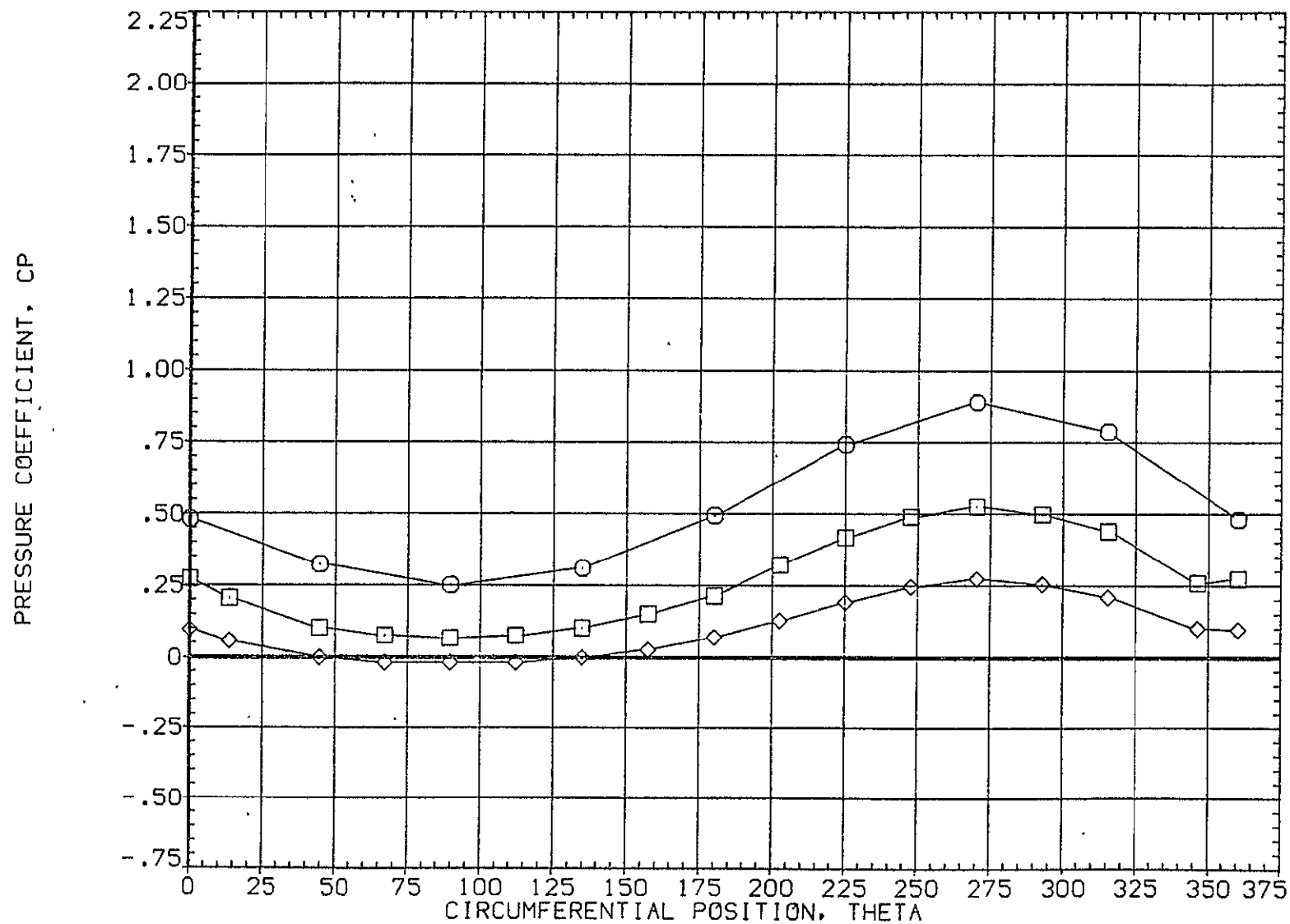


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.216	12.520	3.480	.000	20.000		
□	.322			1.000	PHI	90.000	
◇	.518						

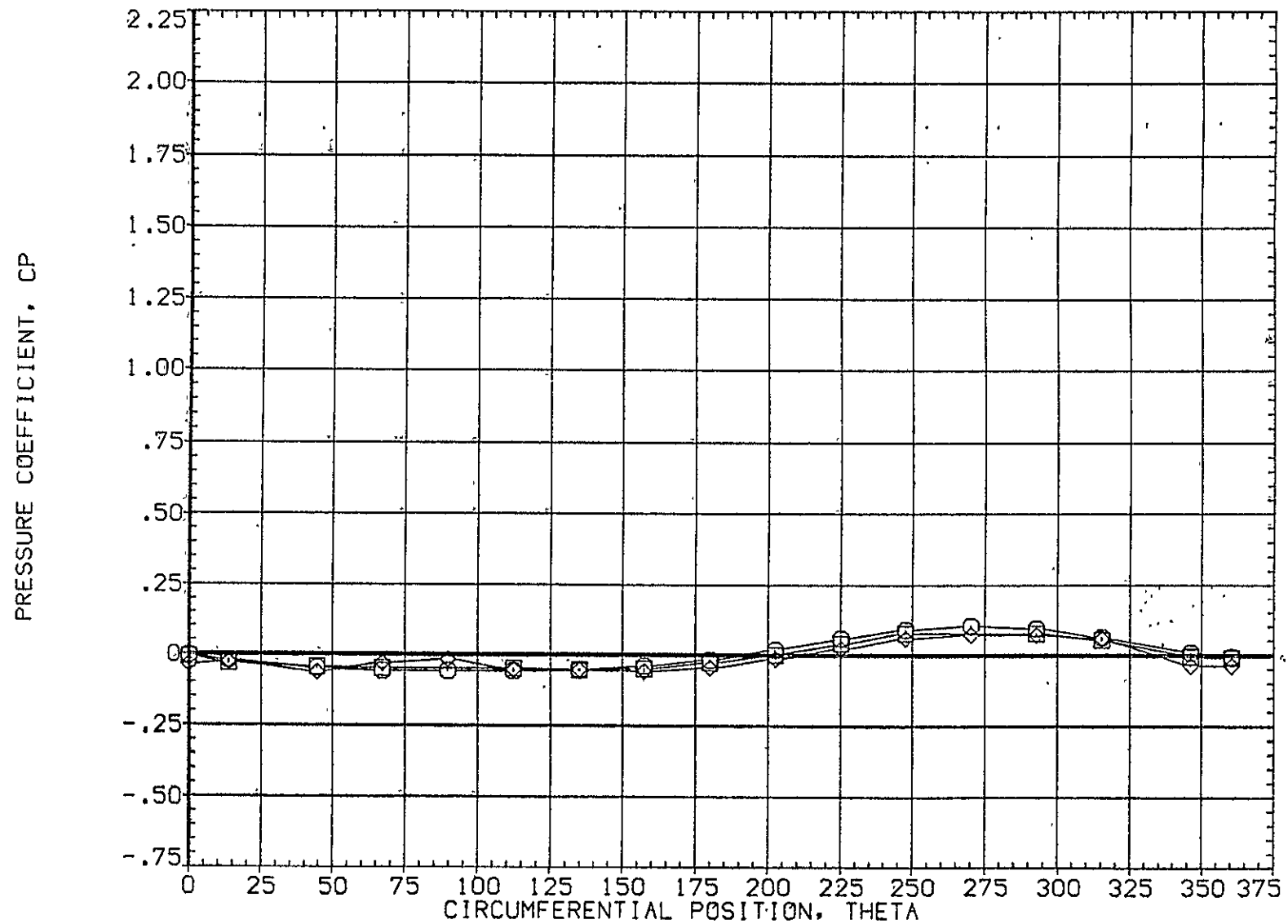


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A016)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
				MOUNT	1.000	PHI	90.000

○	.610						
□	.735						
◇	.860						

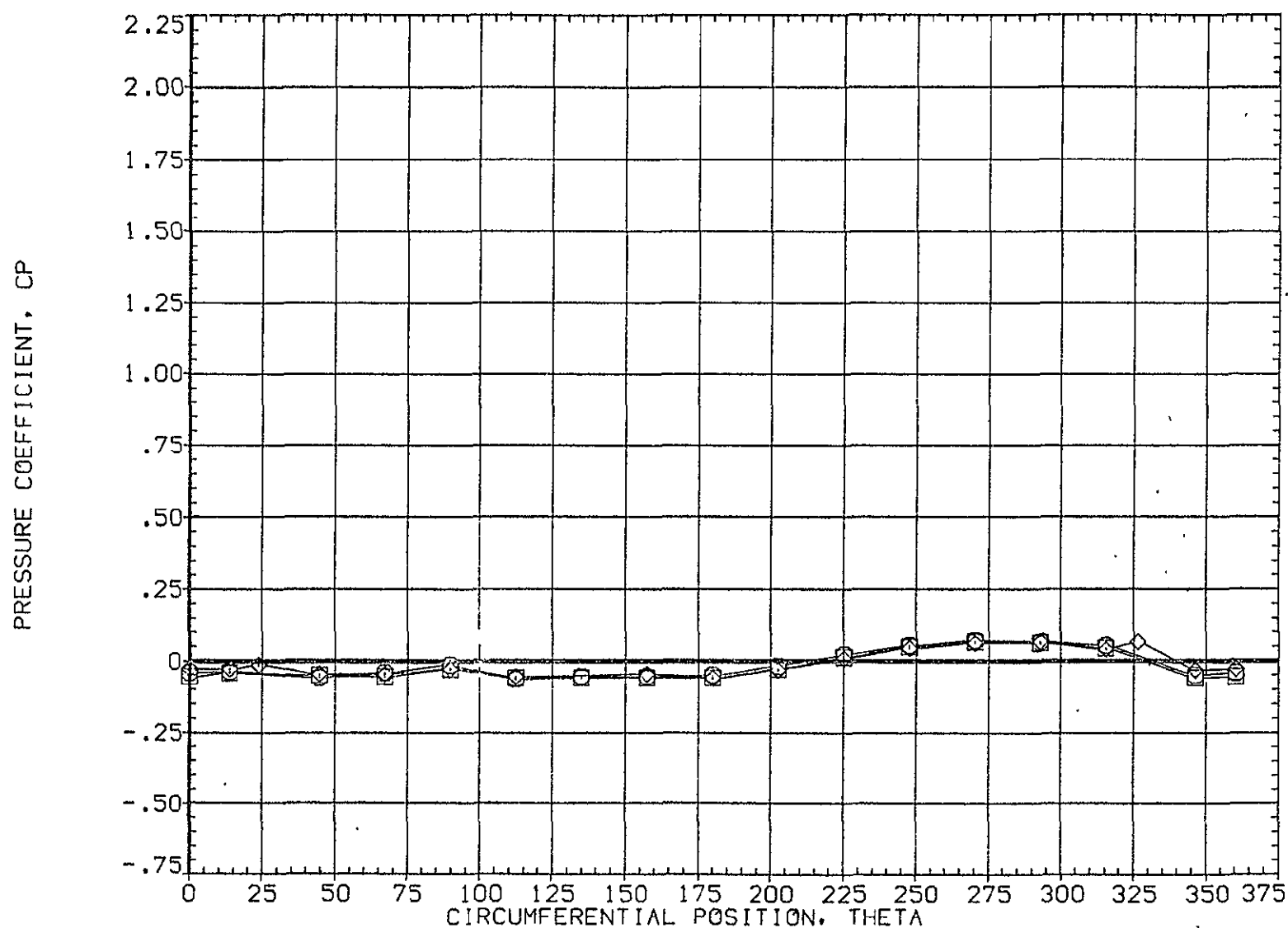


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	12.520	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 90.000

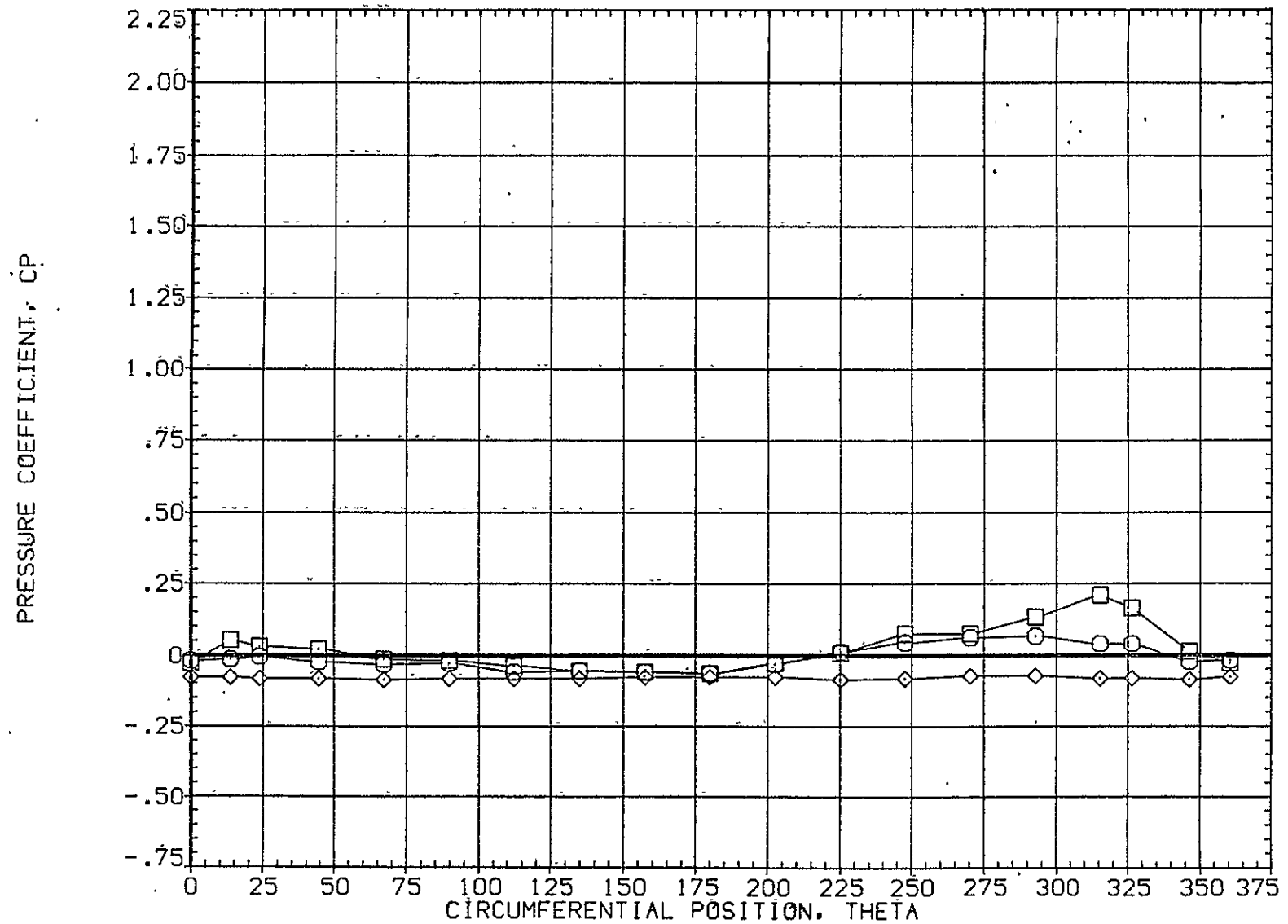


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	16.560	3.480
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
HEIGHT	1.000	PHI	90.000

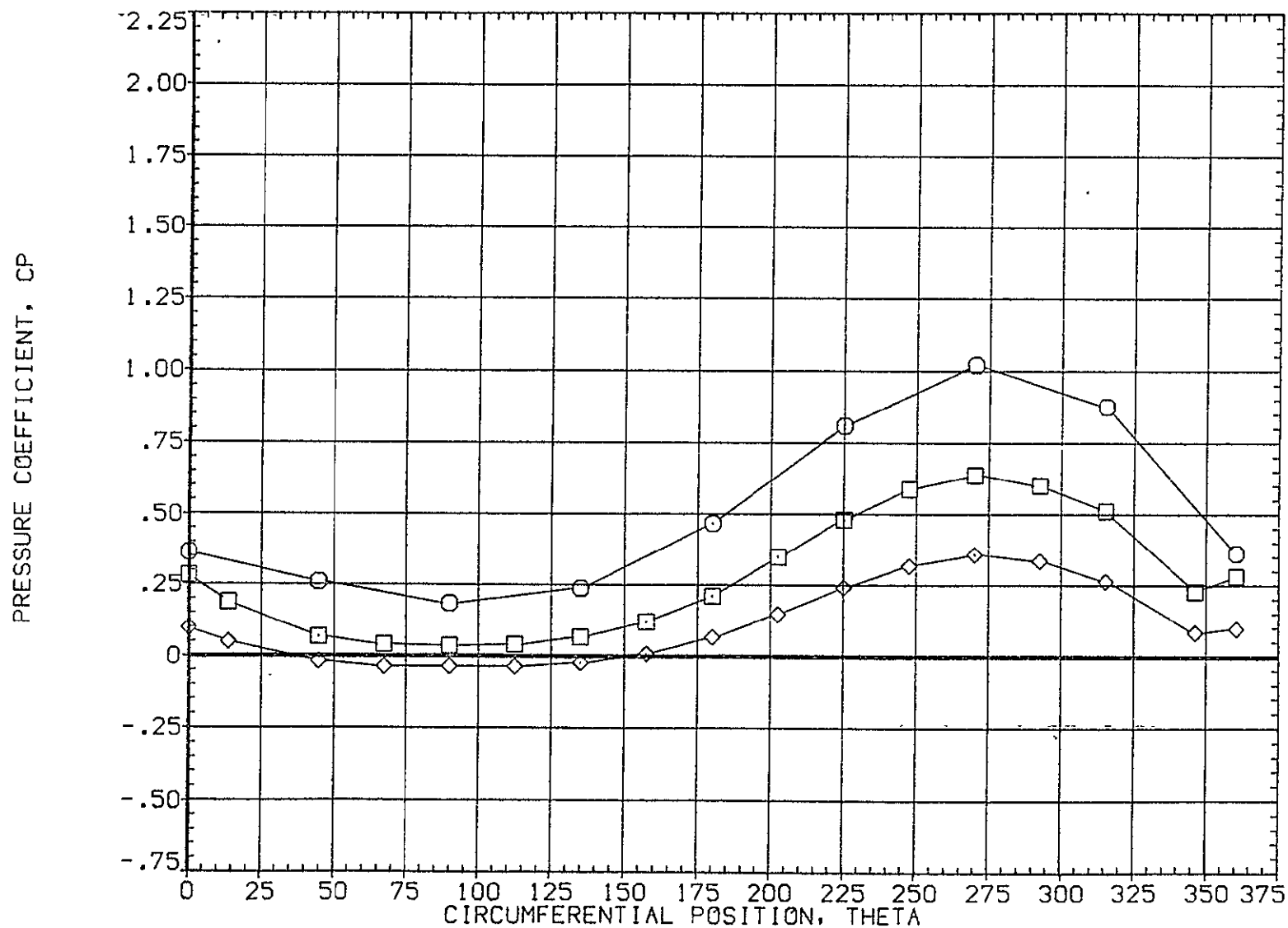


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.216	16.560	3.480	MOUNT	1.000	PHI 90.000
□	.322					
◇	.518					

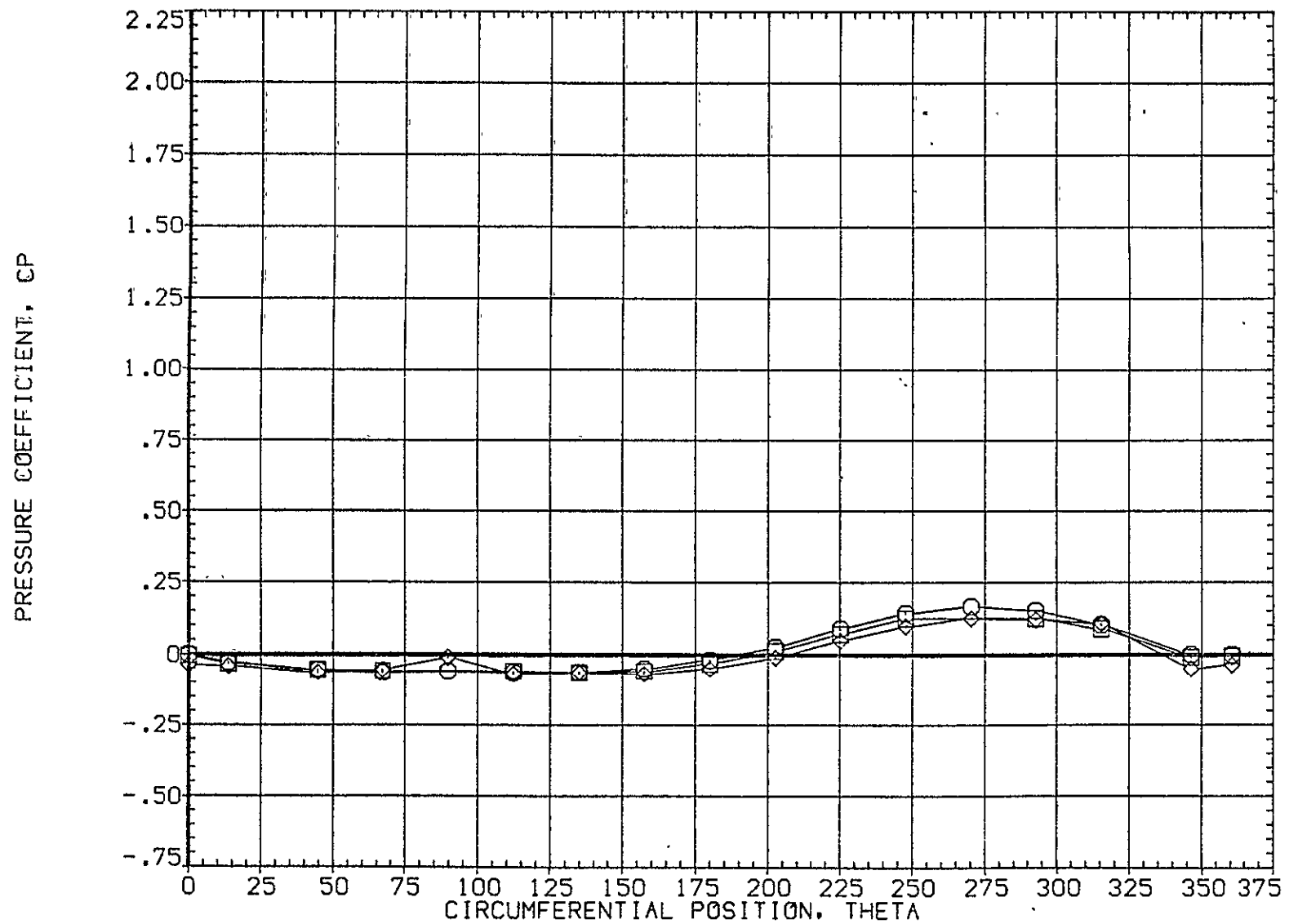


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A017)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	16.560	3.480	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	90.000
◇	.860						

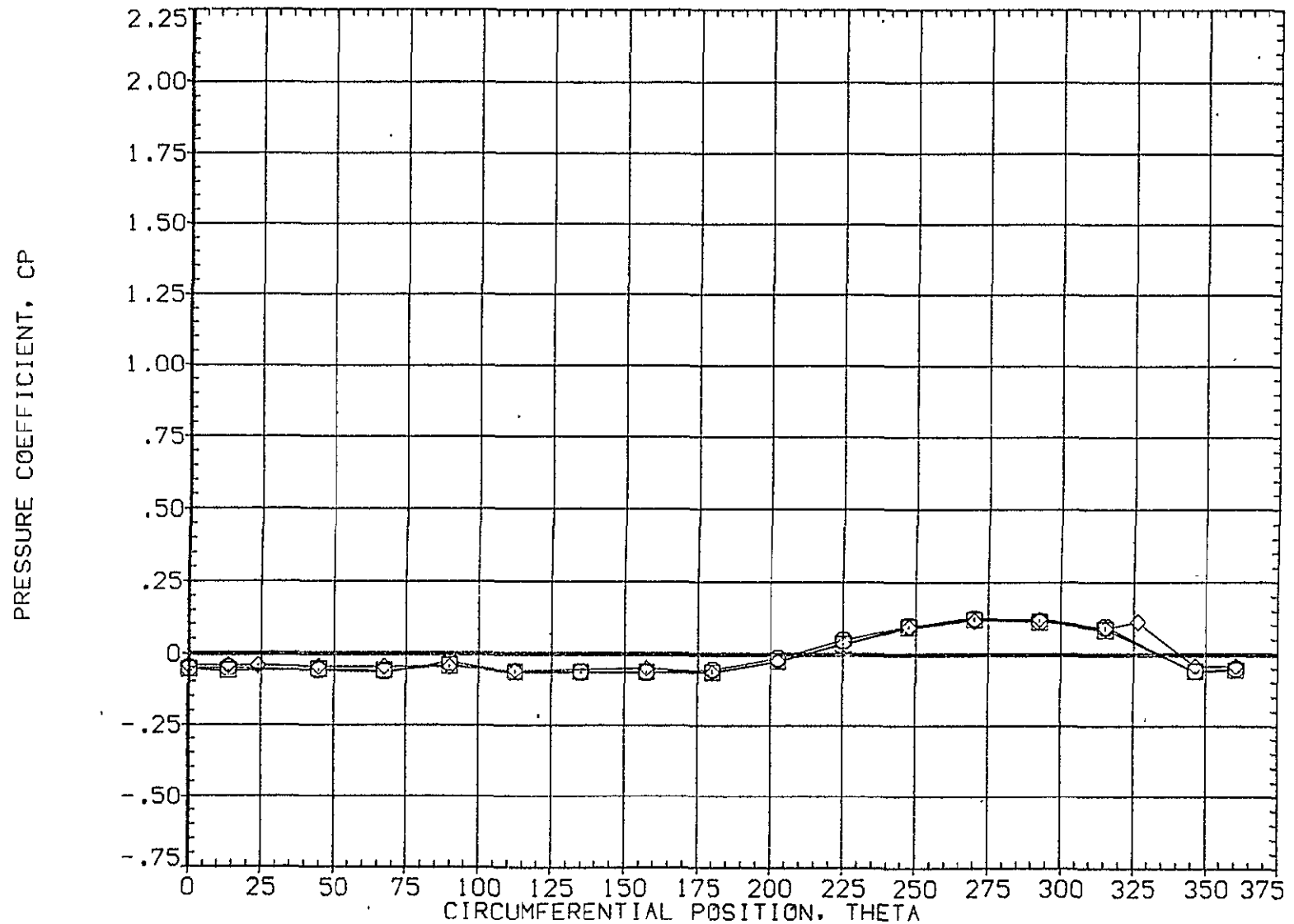


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	16.560	3.480	.000	20.000	
□	.923			1.000	PHI	90.000
◇	.954					

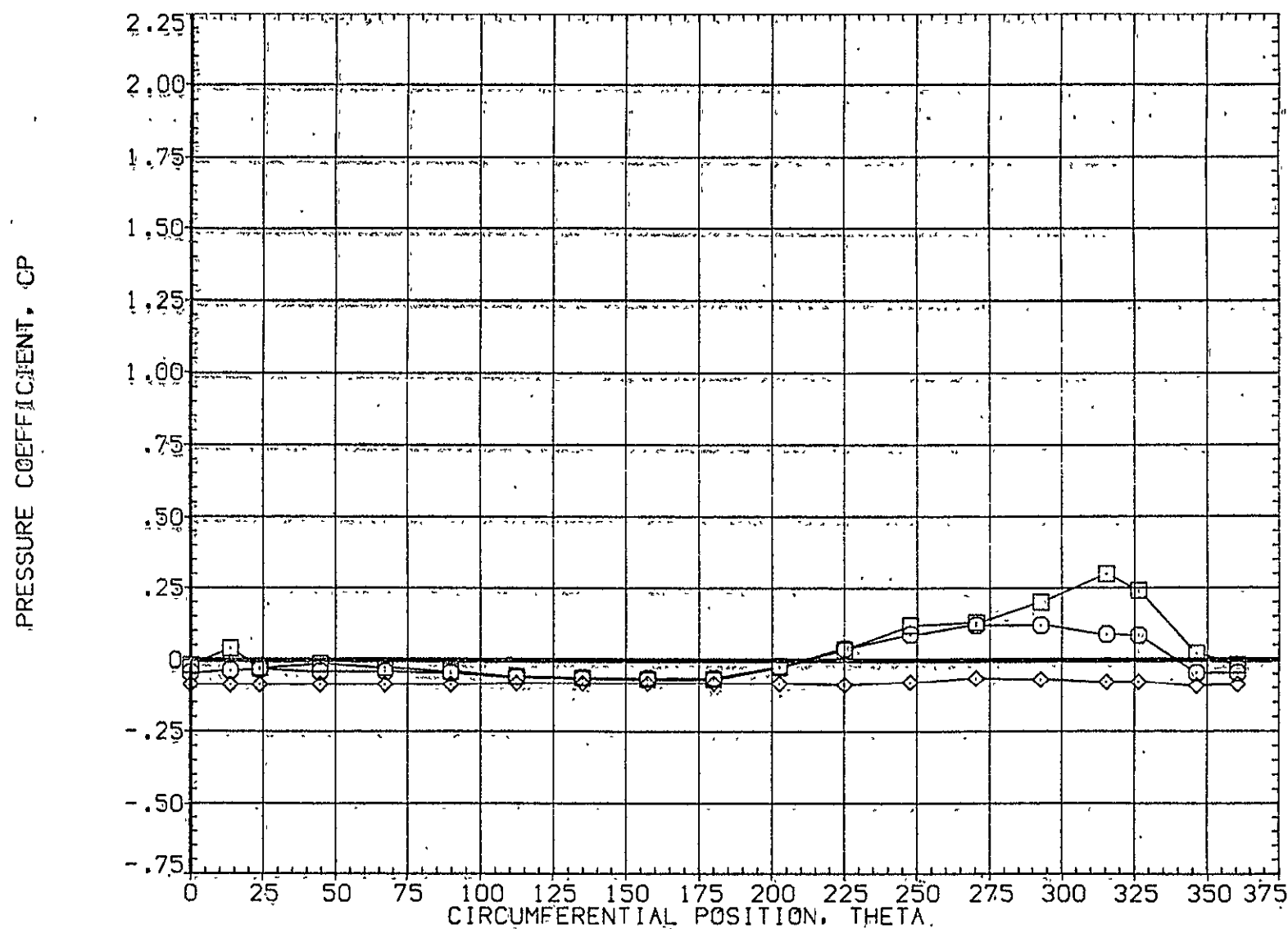


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A018)

SYMBOL	X/LB	ALPHA	MACH
○	.055	20.610	3.480
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	90.000

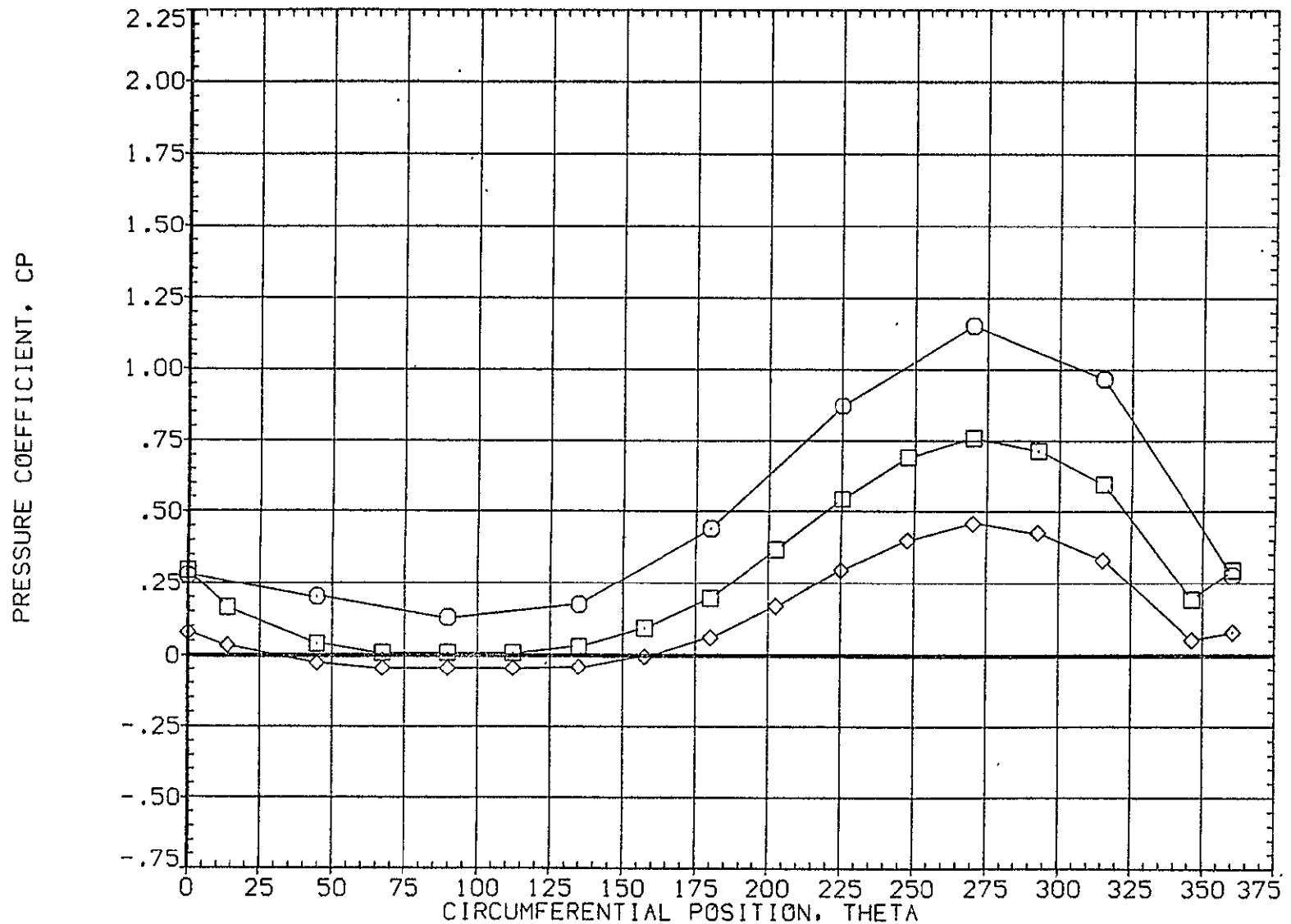


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.610	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	90.000

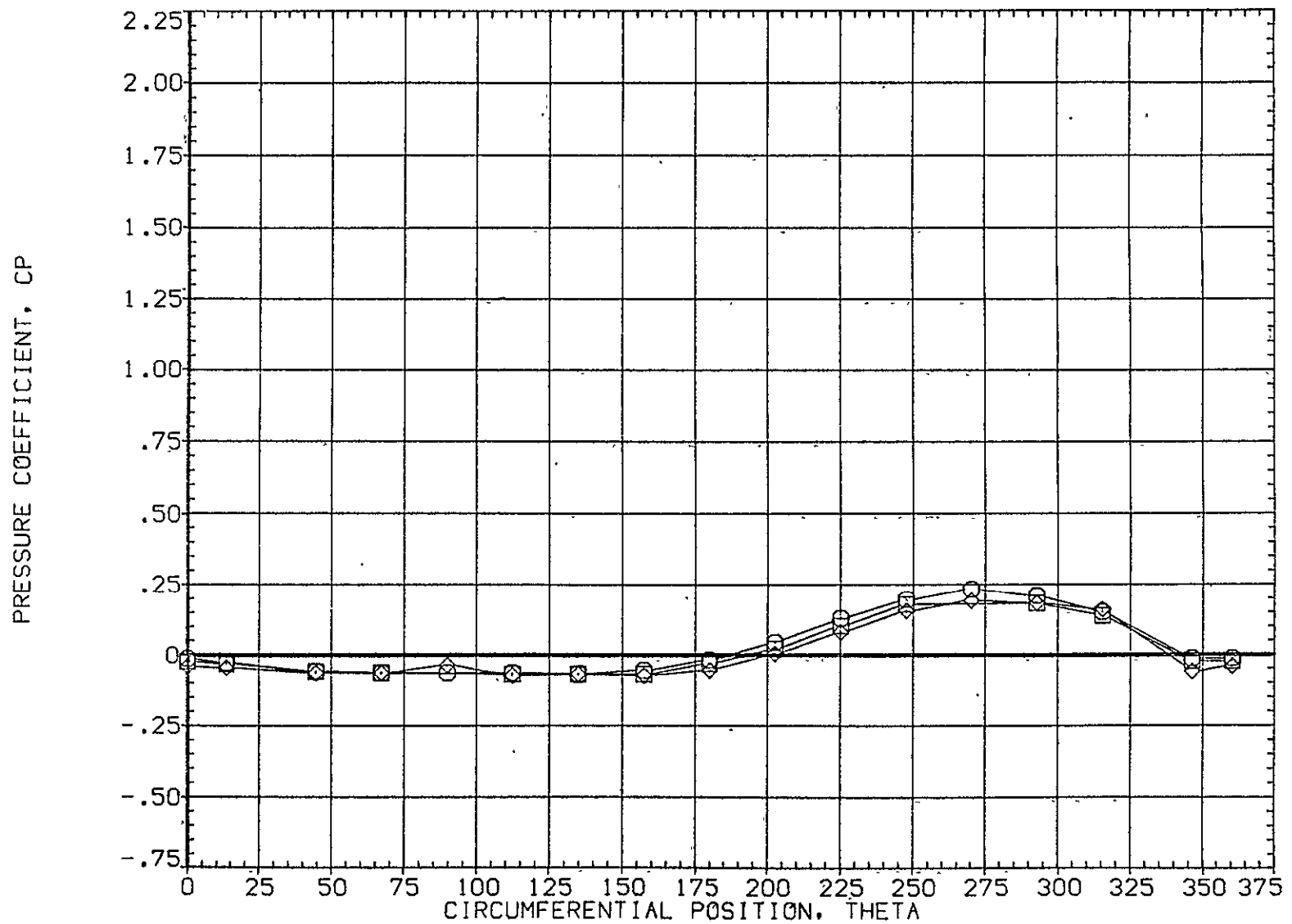


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A018)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.610	20.610	3.480	MOUNT	.000	20.000
□	.735				1.000	PHI 90.000
◇	.860					

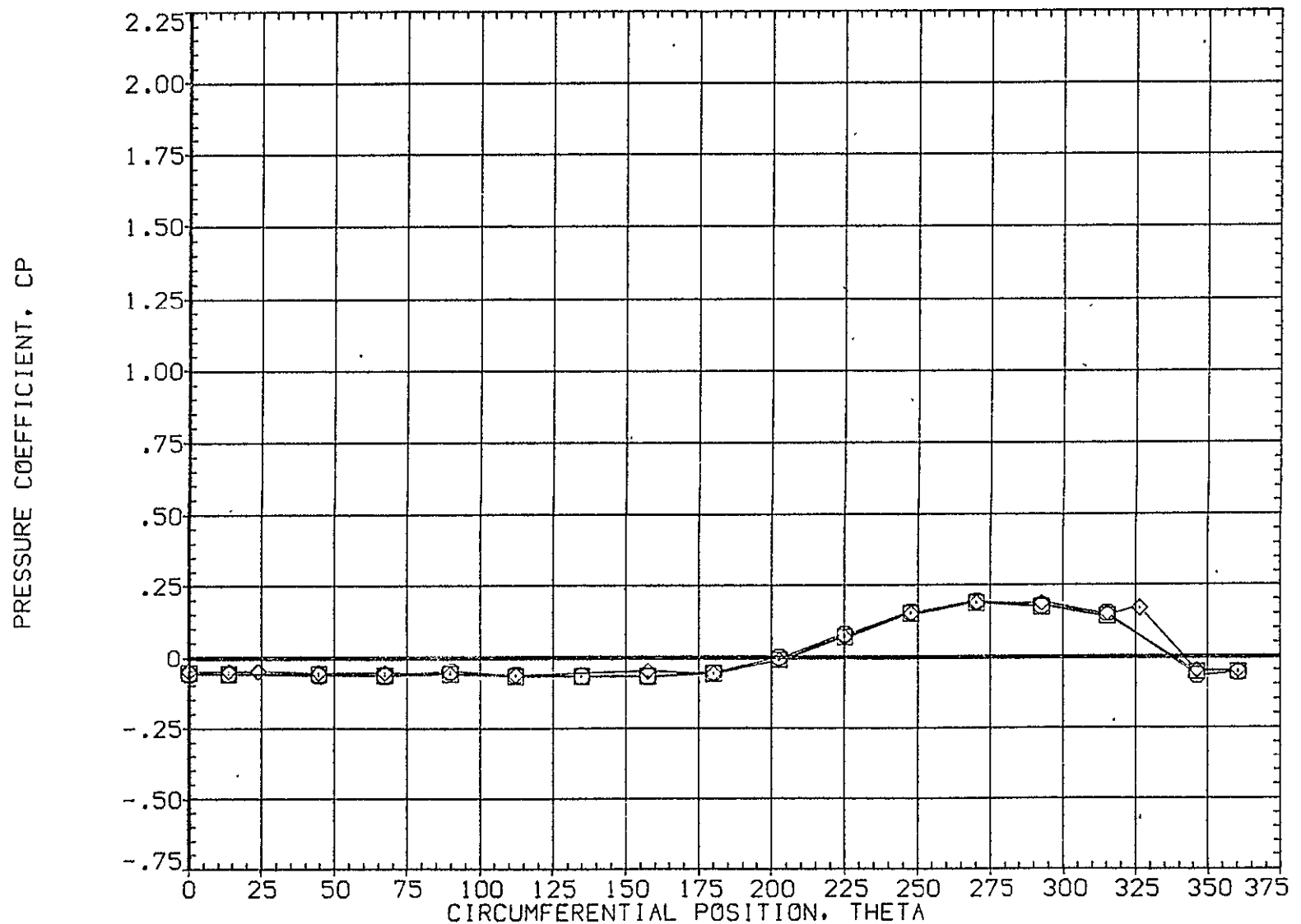


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.892	20.610	3.480	MOUNT	.000	PHI	90.000
□	.923				1.000		
◇	.954						

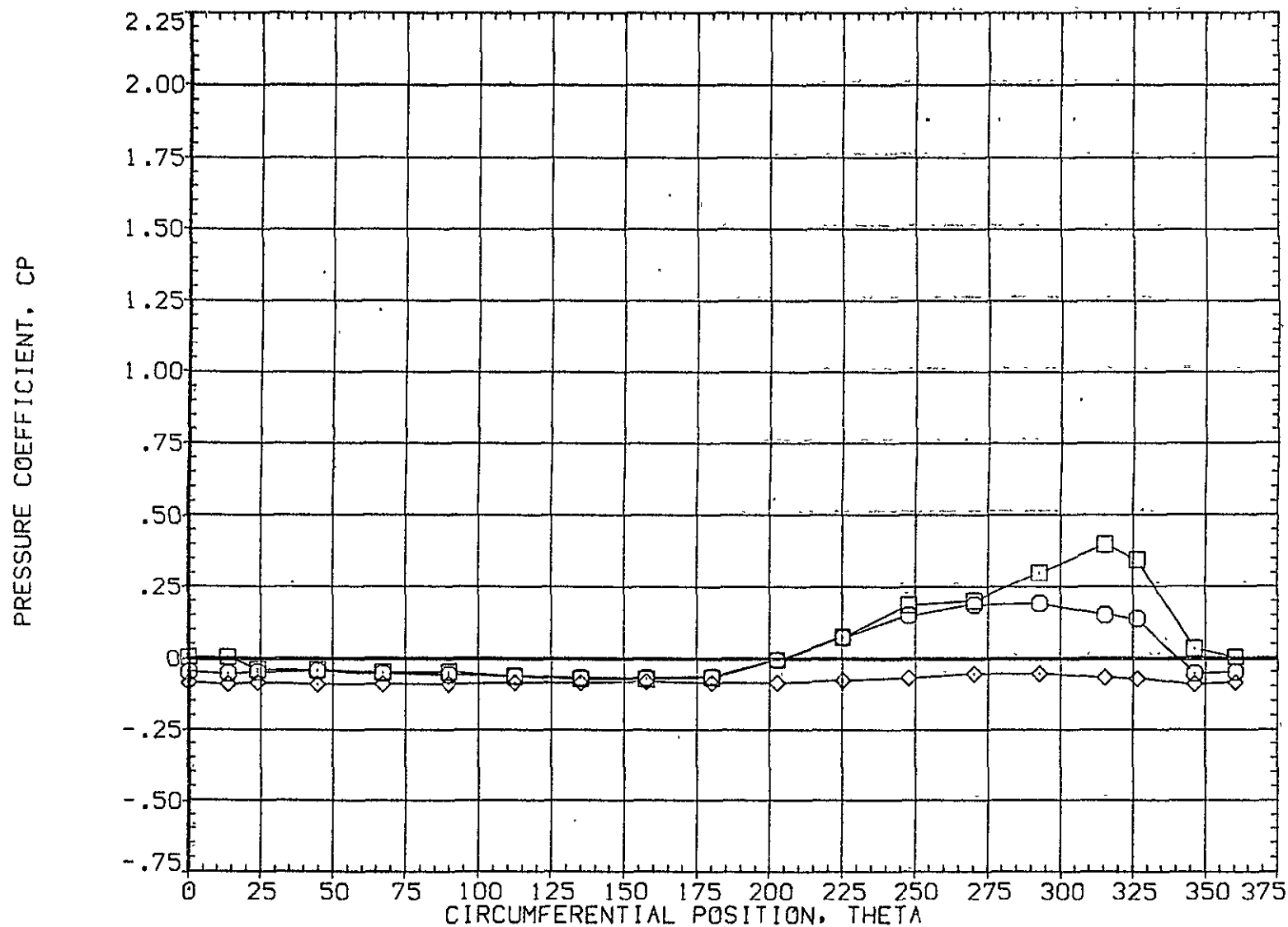


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	24.660	3.480	MOUNT	.000 OFFSET 20.000
□	.108				1.000 PHI 90.000
◇	.162				

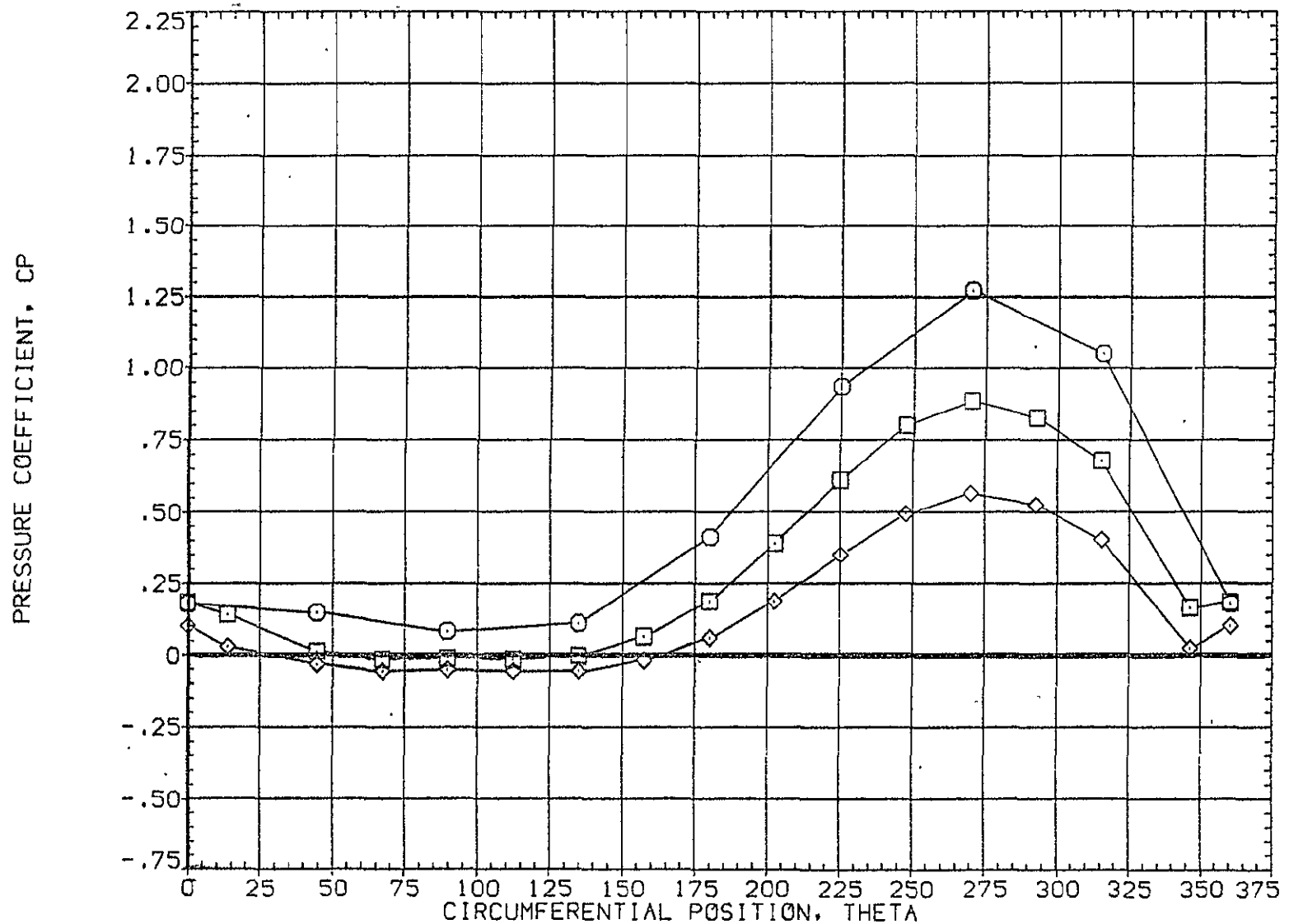


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.216	24.660	3.480	.000	PHI	90.000
□	.322			1.000		
◇	.518					

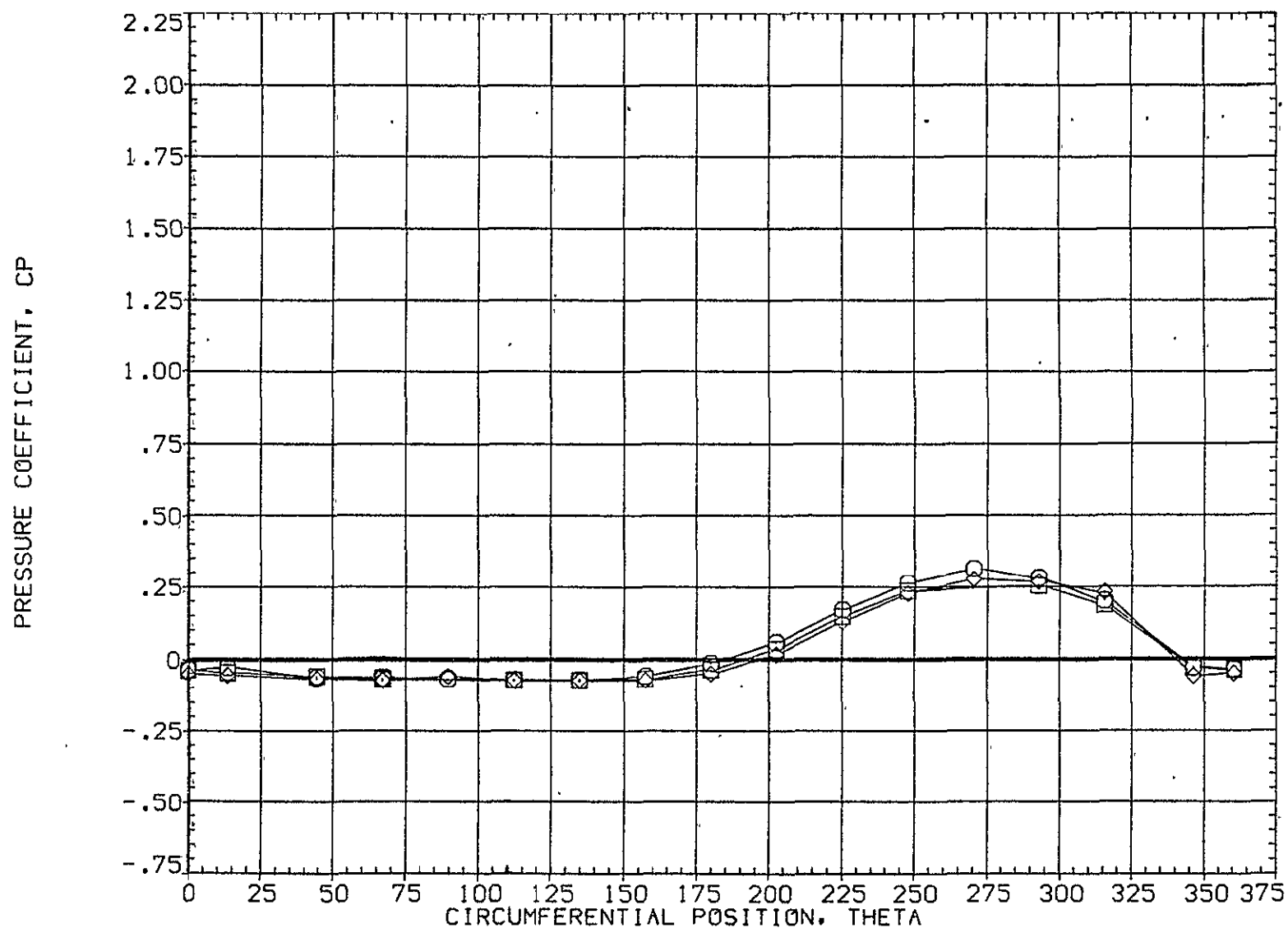


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A019)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	24.660	3.480	BETA	.000	OFFSET	20.000
□	.735			MOUNT	1.000	PHI	90.000
◇	.860						

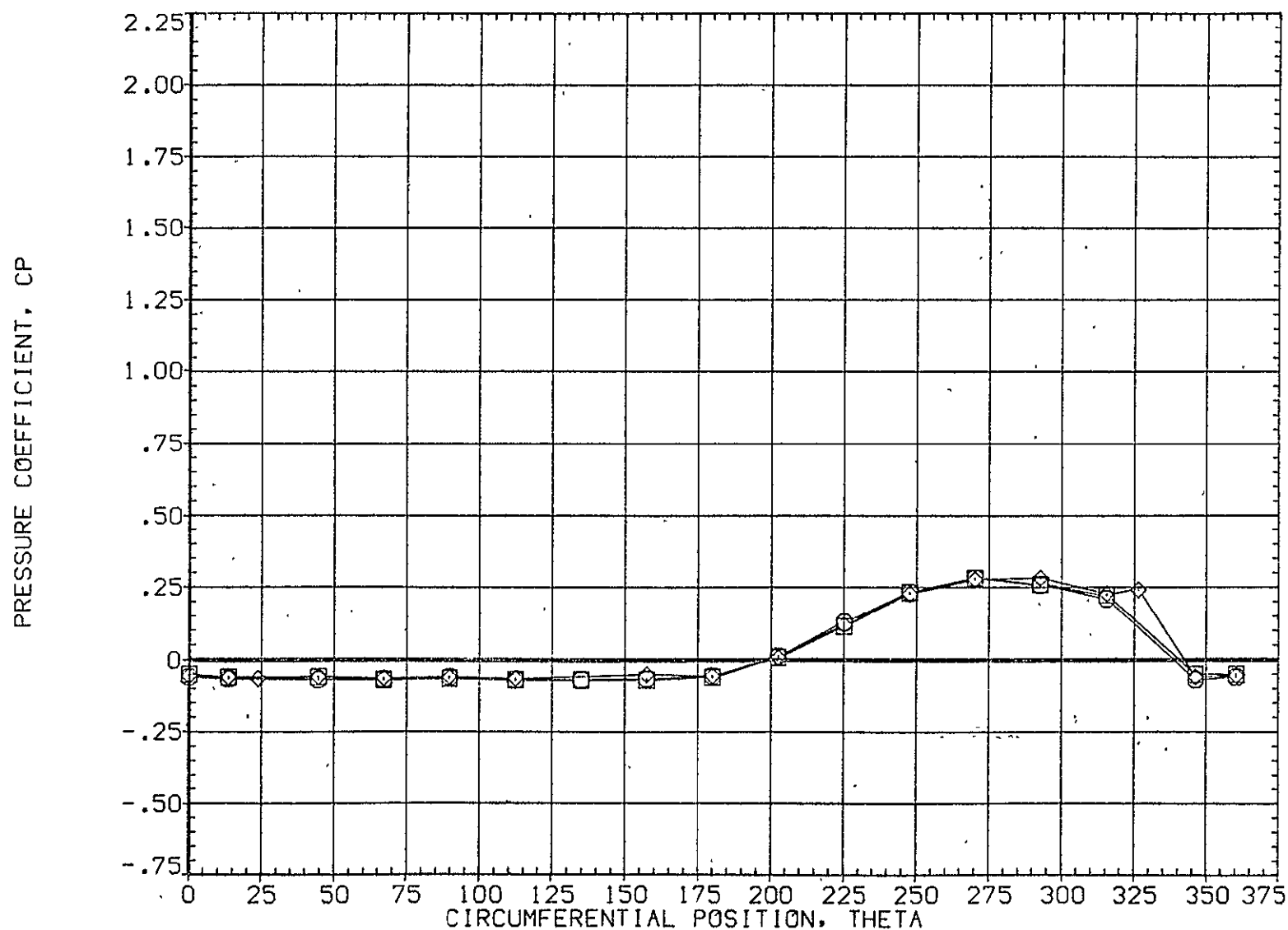


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 90.000
○	.892	24.660	3.480			
□	.923					
◇	.954					

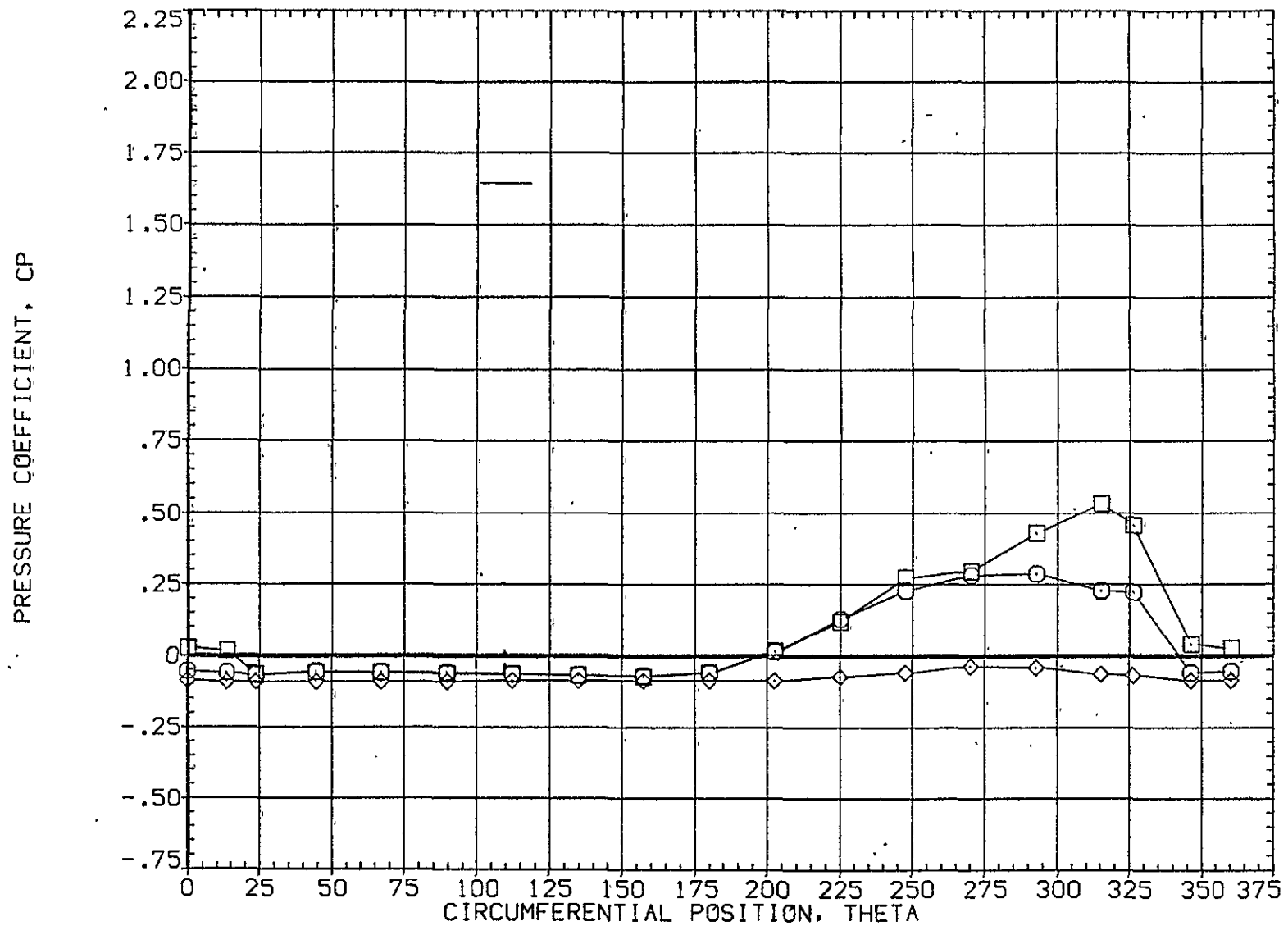


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.055	28.700	3.480	BETA	.000	OFFSET	20.000
□	.108			MOUNT	1.000	PHI	90.000
◇	.162						

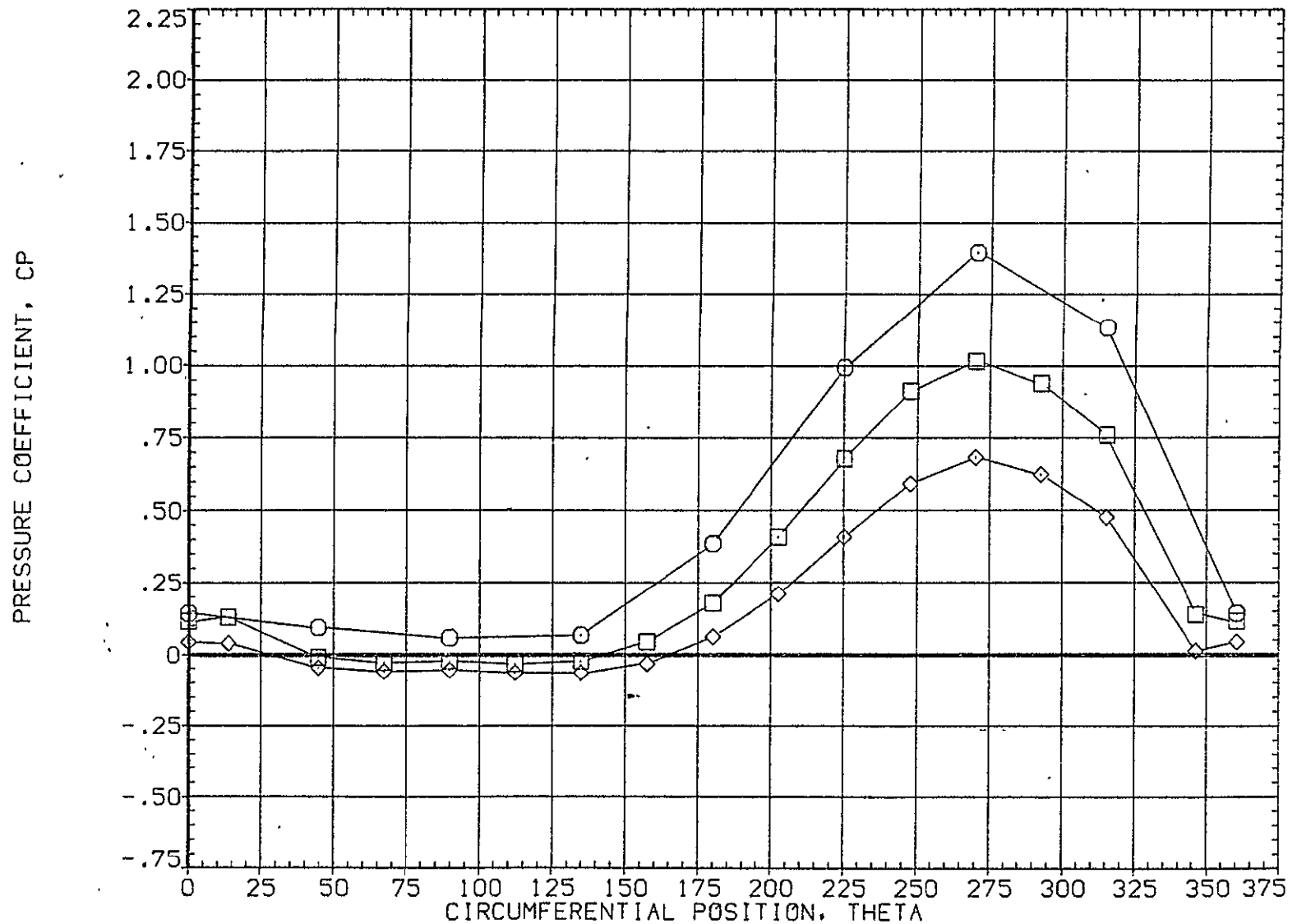


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

ALPHA

MACH

.216
.322
.518

28.700

3.480

BETA
MOUNT

PARAMETRIC VALUES

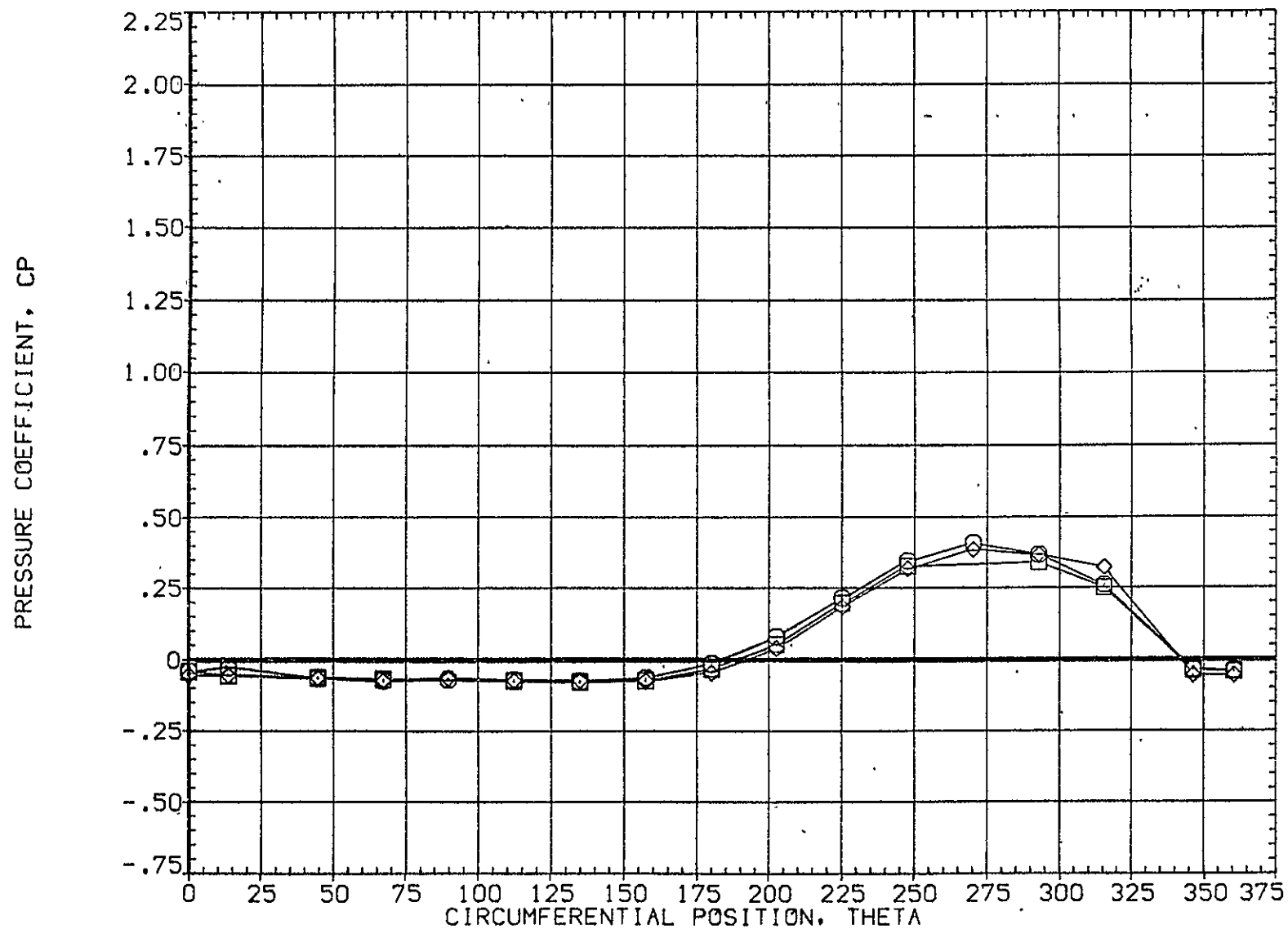
.000
1.000OFFSET
PHI20.000
90.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A020)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	28.700	3.480	.000	OFFSET 20.000
□	.735			1.000	PHI 90.000
◇	.860				

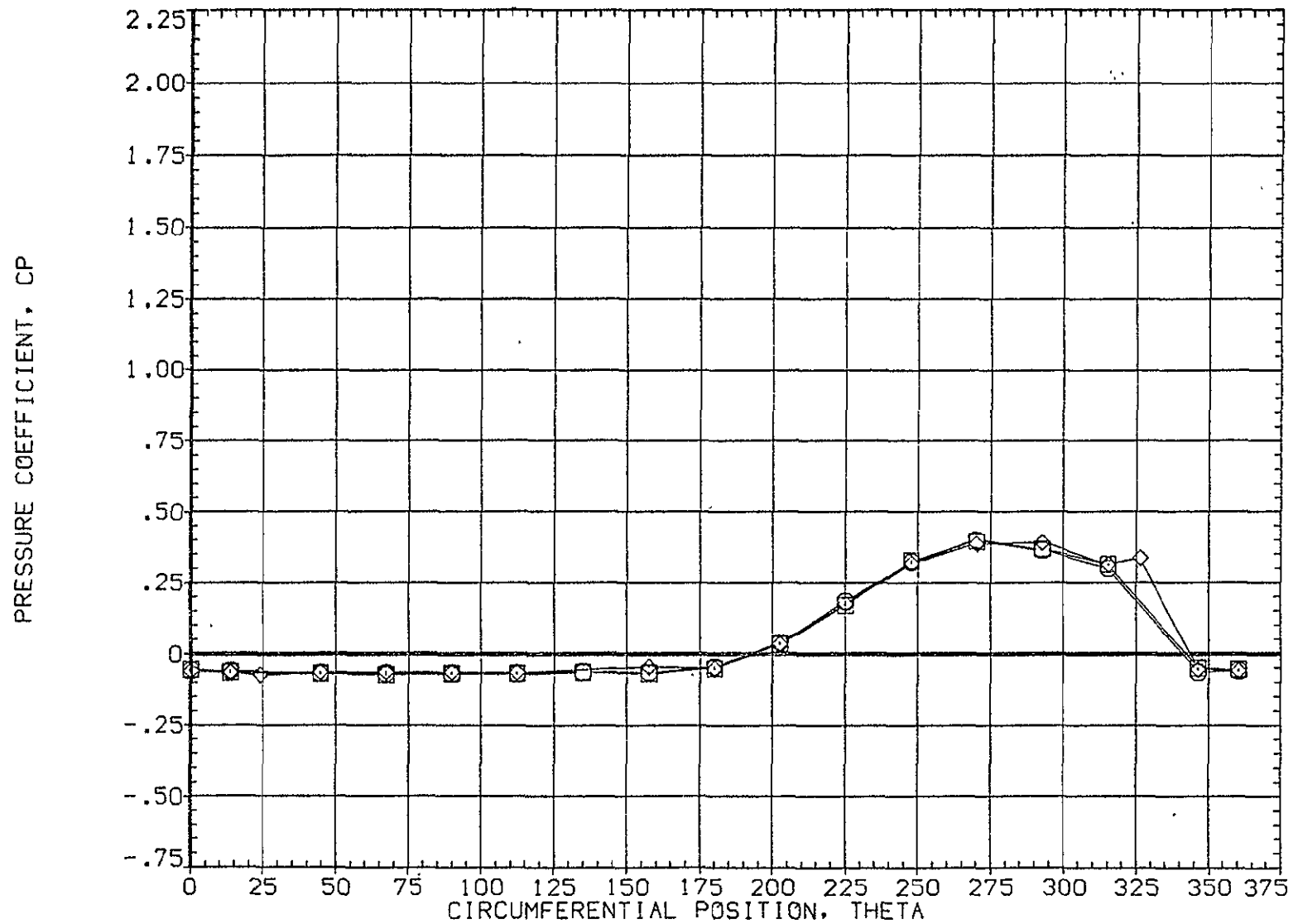


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

BETA

PARAMETRIC VALUES

.000

OFFSET

20.000

MOUNT

1.000

PHI

90.000

PRESSURE COEFFICIENT, CP

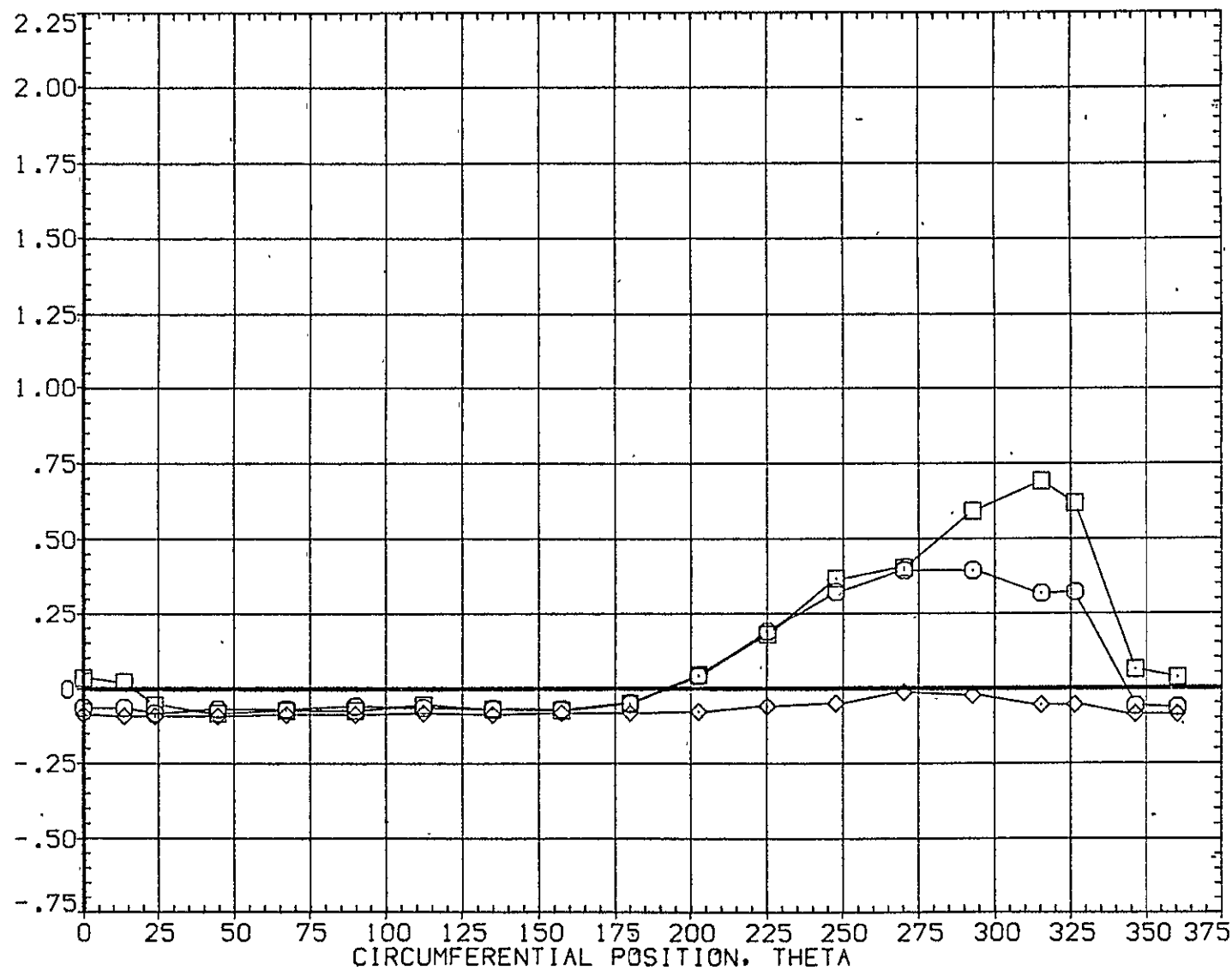


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A021)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.055	-8.360	3.480	BETA	.000	OFFSET .000
□	.108			MOUNT	1.000	PHI 135.000
◇	.162					

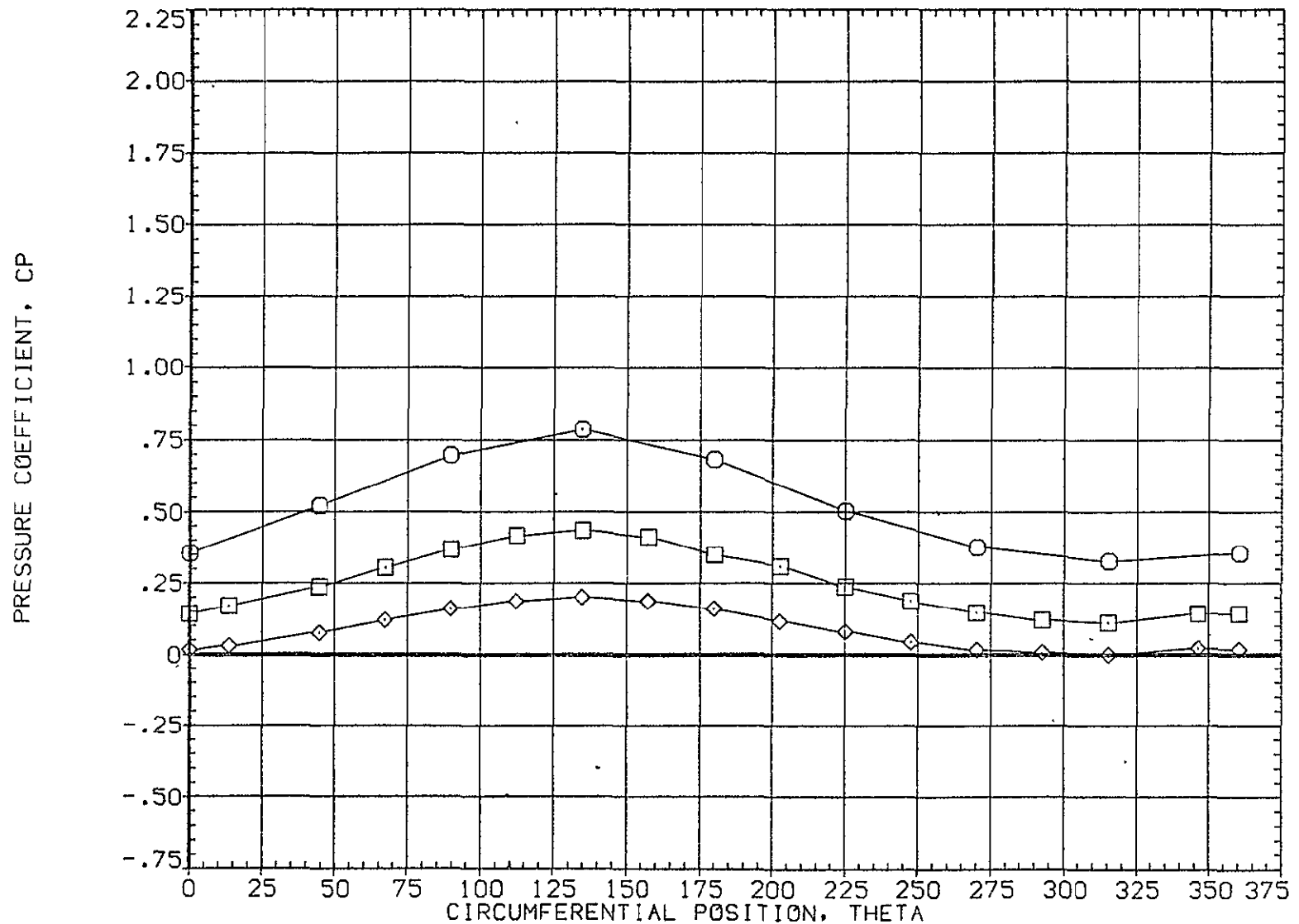


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.216	-8.360	3.480	.000	1.000	.000	
□	.322						
◇	.518						135.000

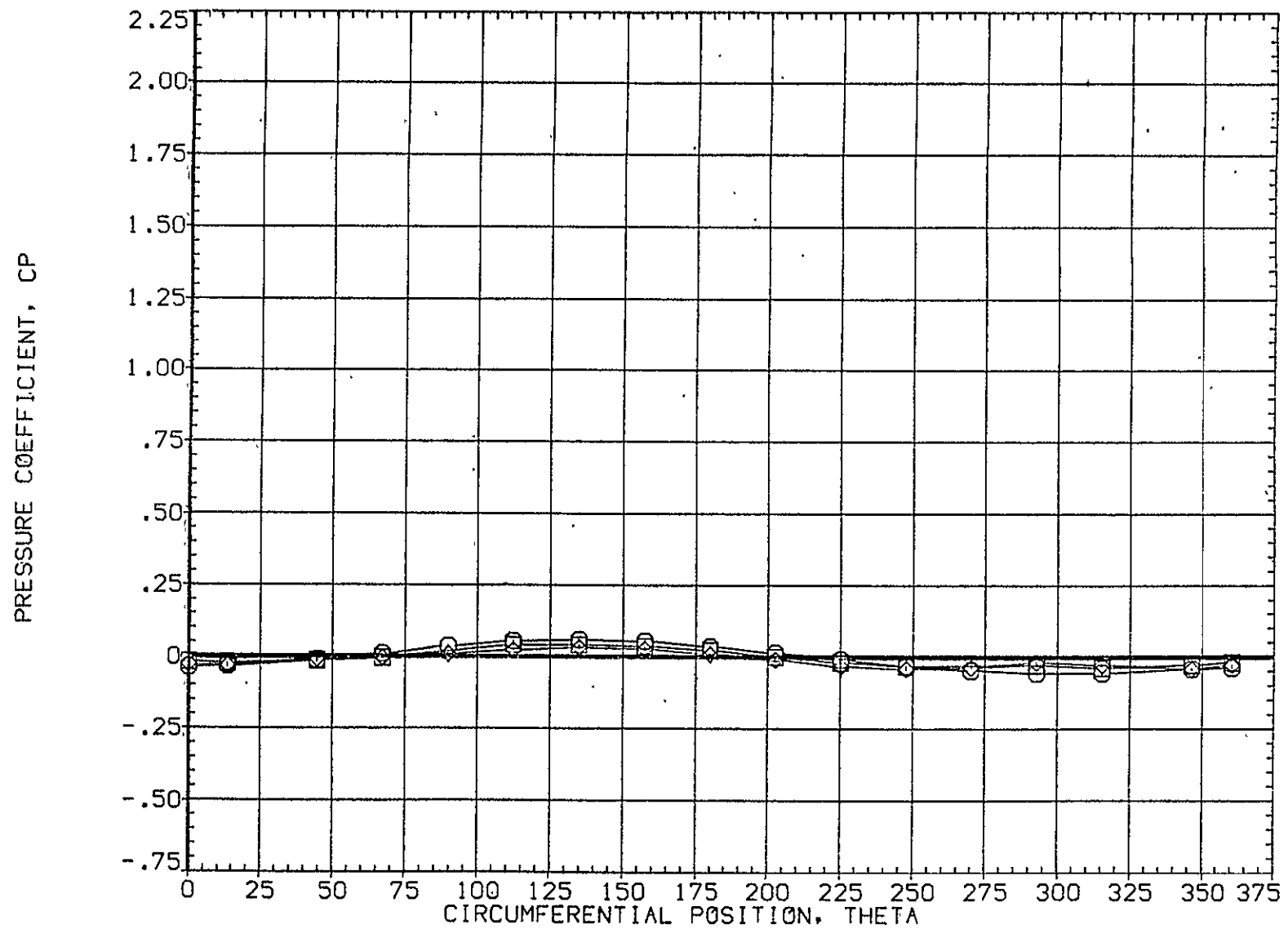


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A021)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-8.360	3.480	MOUNT.	.000	OFFSET	.000
□	.735				1.000	PHI	135.000
◇	.860						

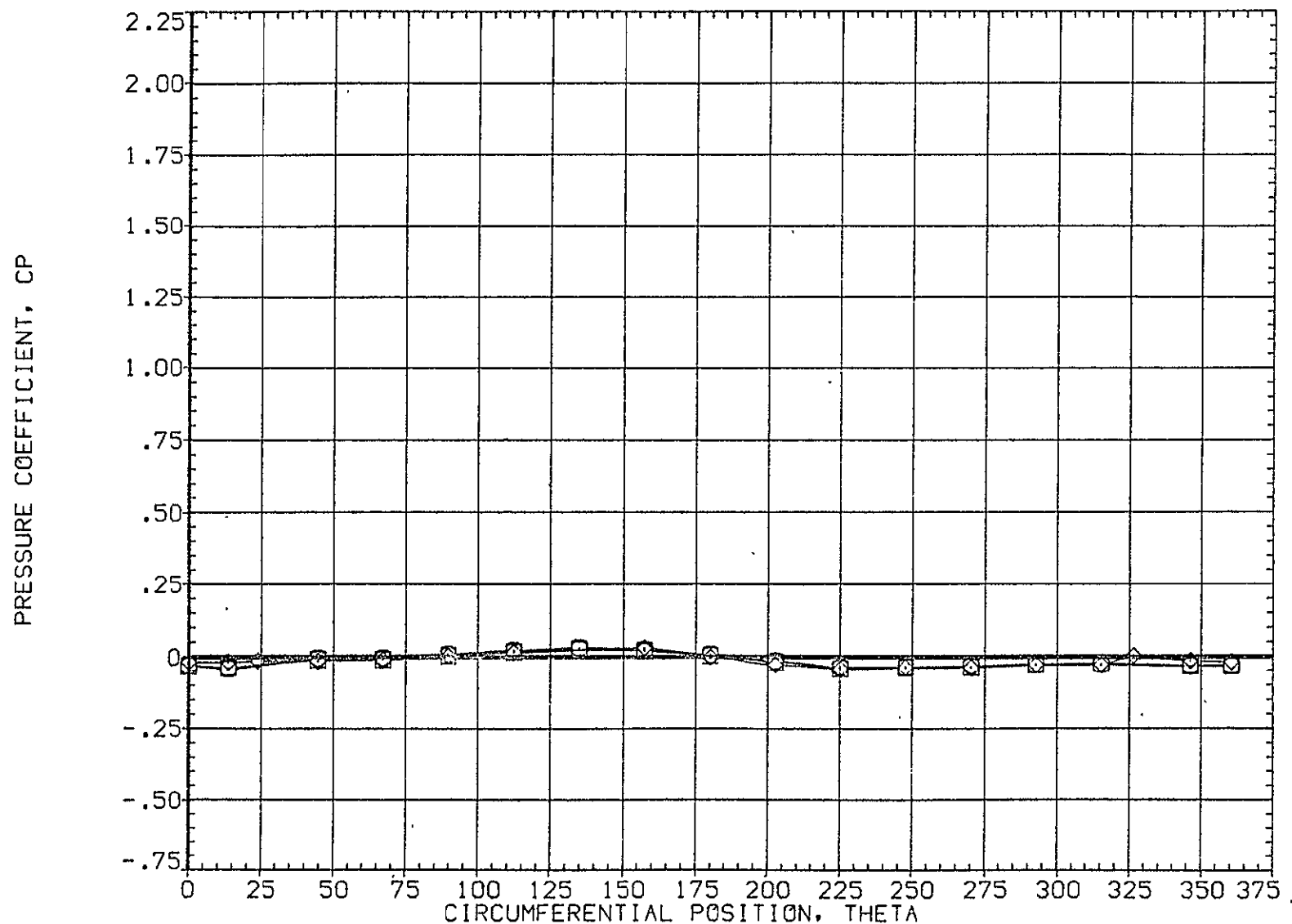


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	-8.360	3.480	MOUNT	.000	.000	
□	.923				1.000	PHI	135.000
◇	.954						

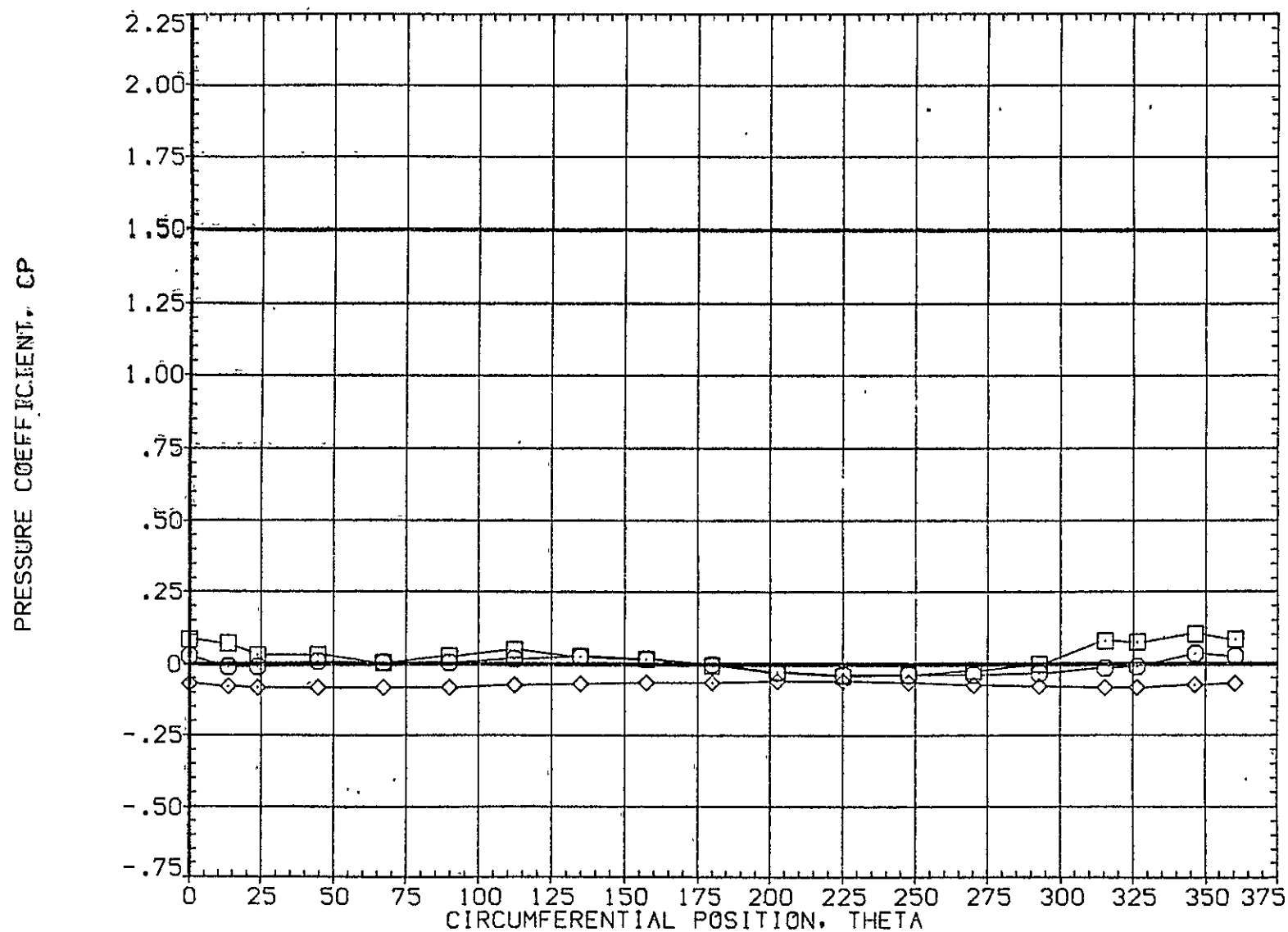


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	-4.330	3.480
□	.108		
◇	.162		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	
1.000	135.000	

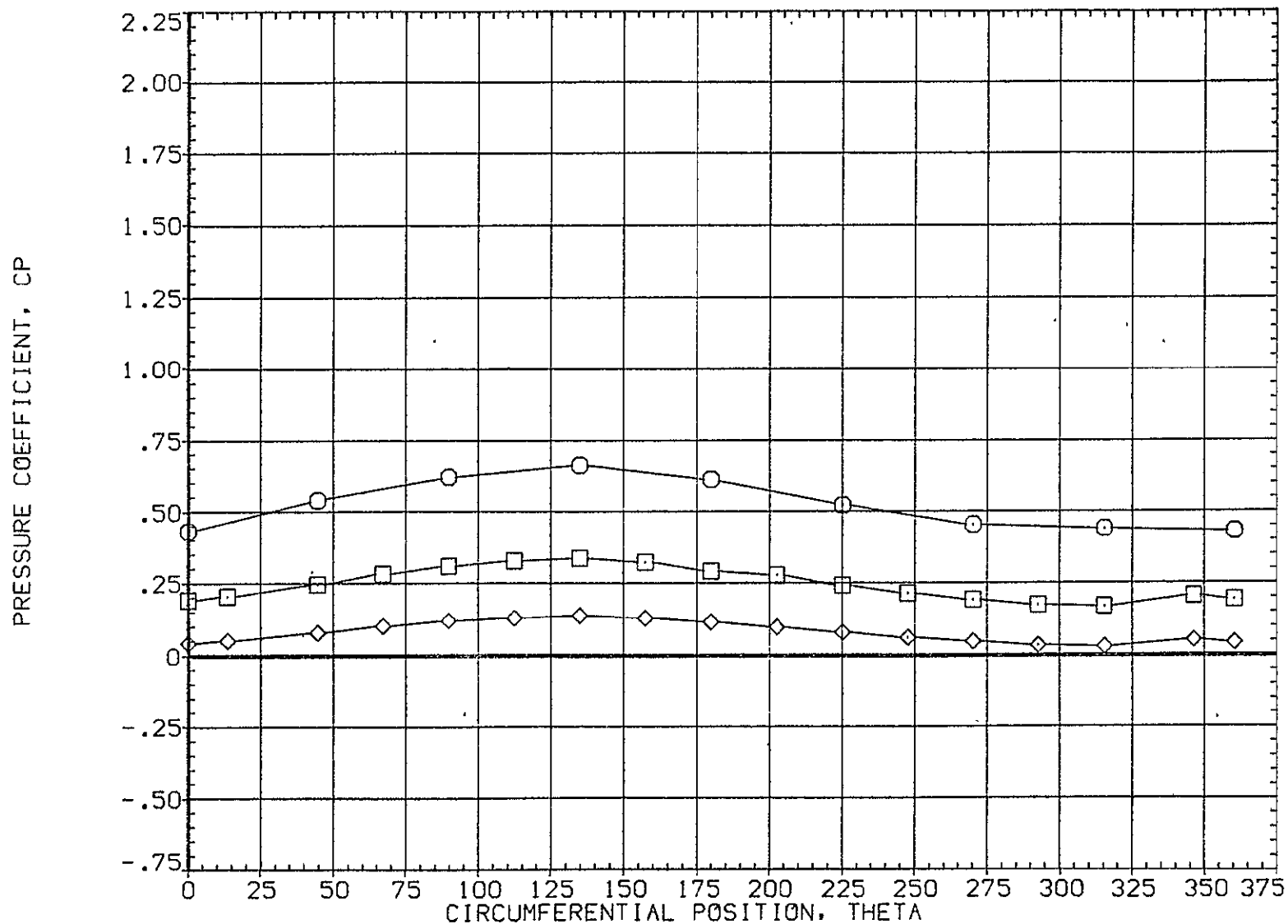


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-4.330	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET .000
MOUNT	1.000	PHI 135.000

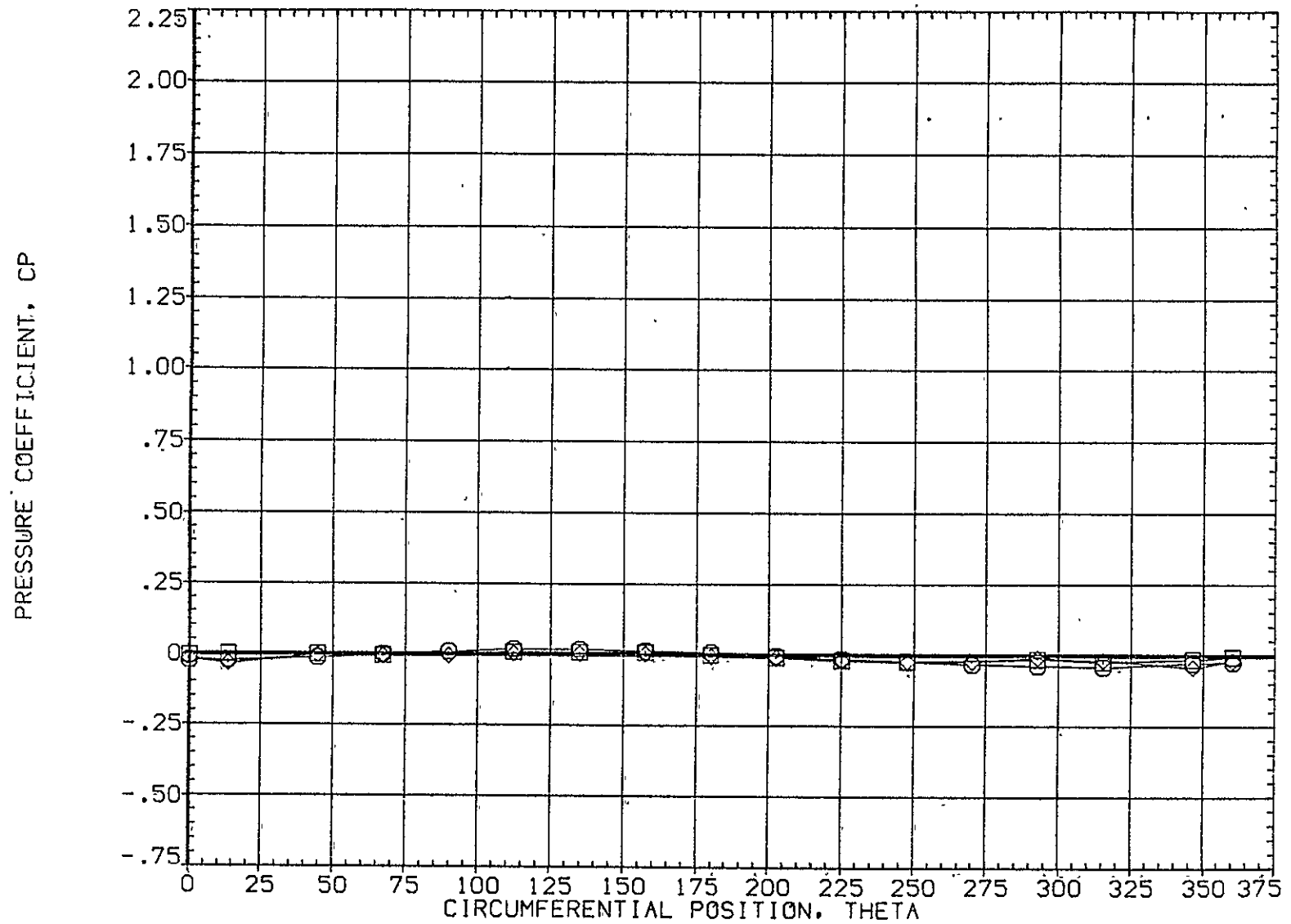


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A022)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.610	-4.330	3.480	BETA	.000	OFFSET
□	.735			MOUNT	1.000	PHI
◇	.860					135.000

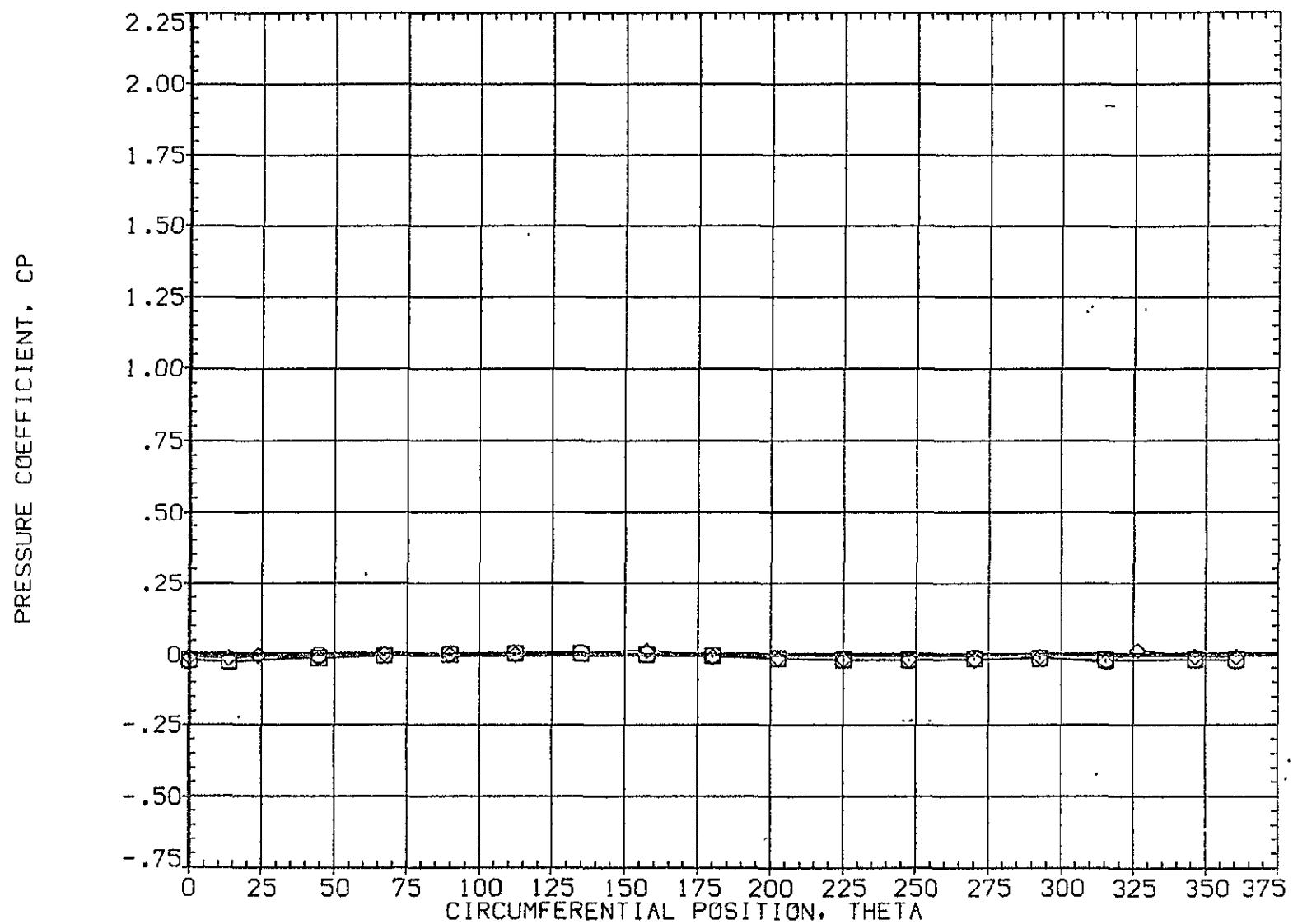


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-4.330	3.480			.000
□	.923			MOUNT	1.000	PHI 135.000
◇	.954					

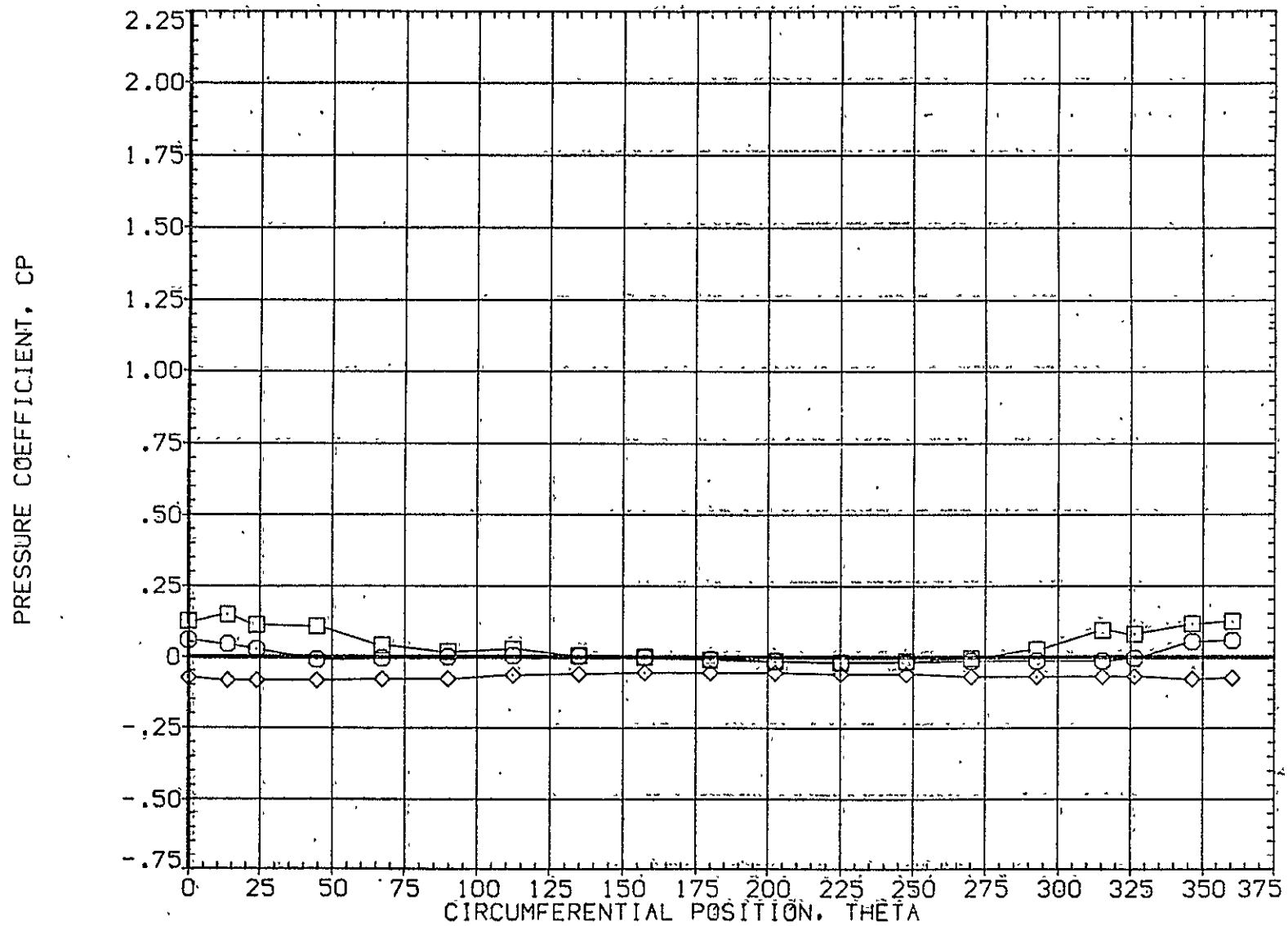


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A023)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-.280	3.480	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	135.000
◇	.162						

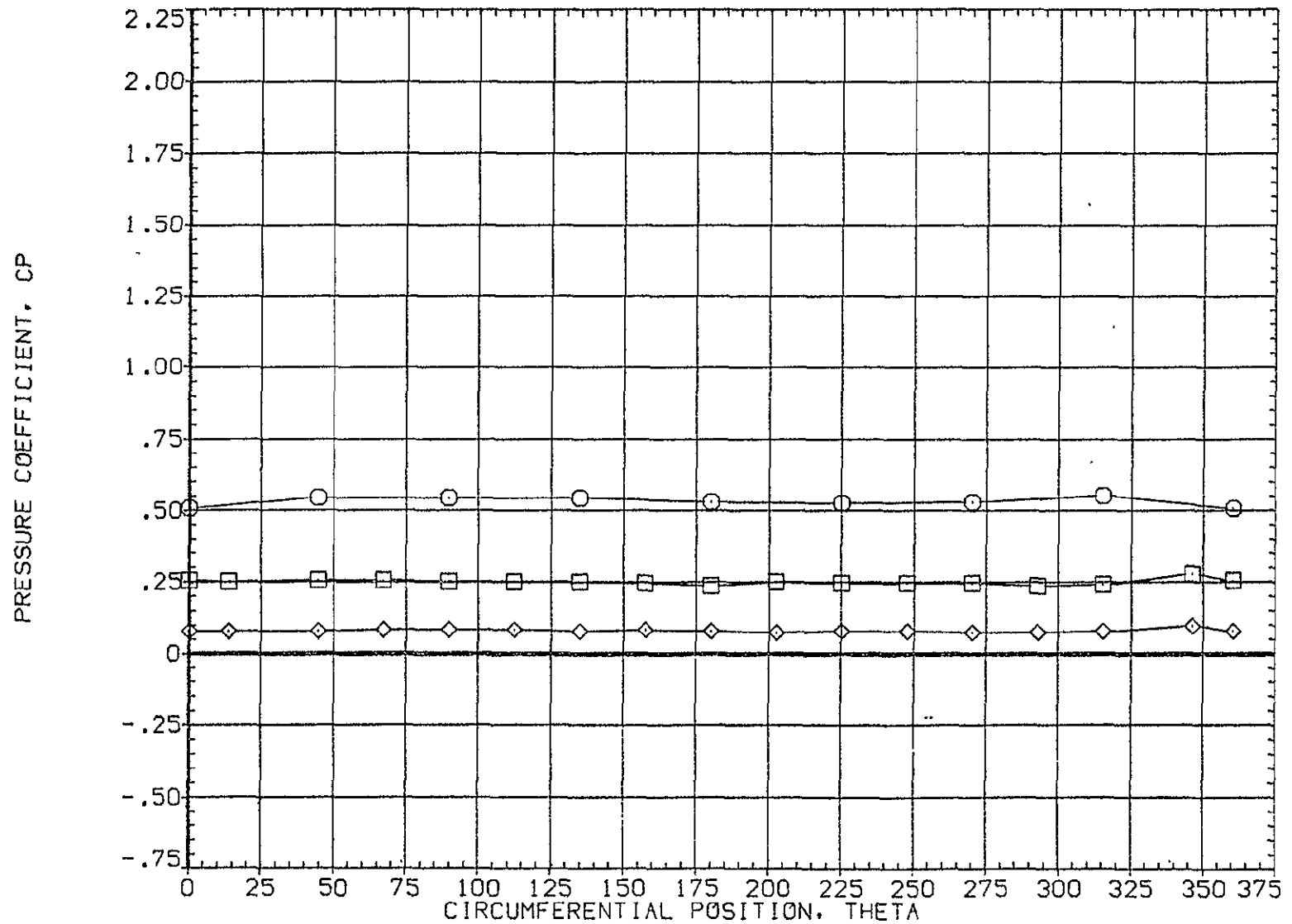


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.216	-.280	3.480	.000		.000	
□	.322			1.000			135.000
◇	.518						

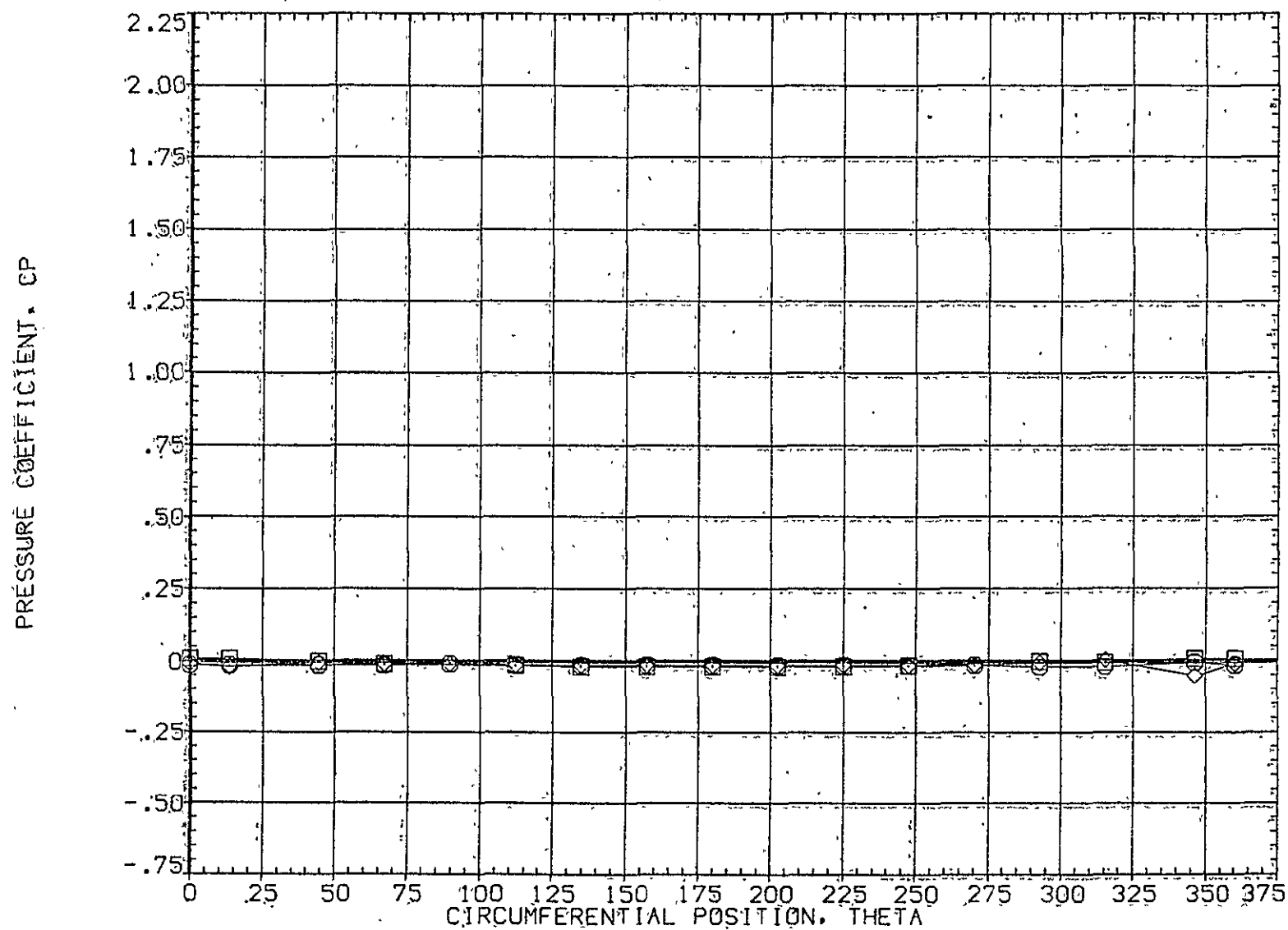


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A023)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	
○	.610	-.280	3.480	.000	OFFSET	.000
□	.735			1.000	PHI	135.000
◇	.860					

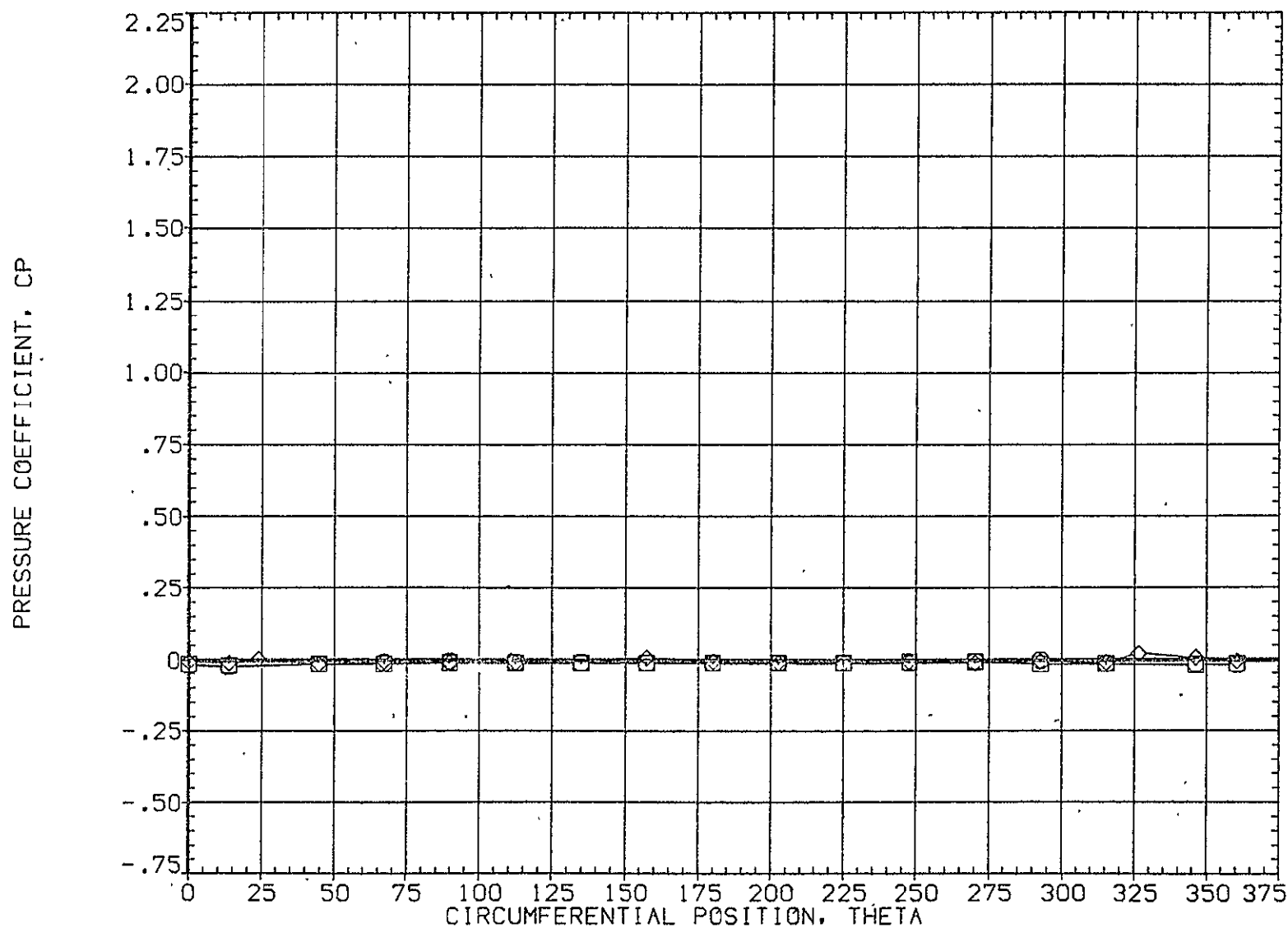


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.892	-.280	3.480			.000
□	.923					
◇	.954					135.000

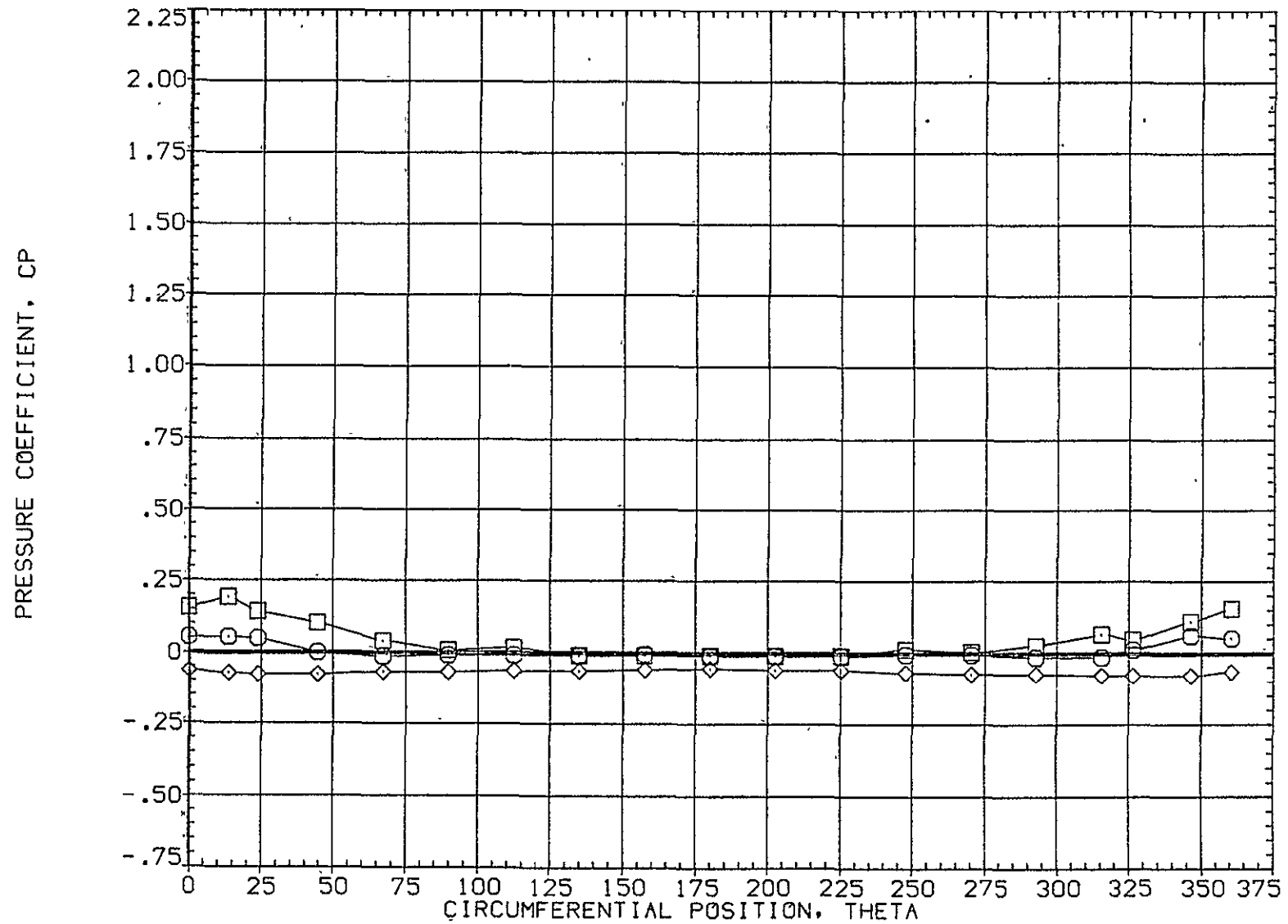


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A024)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	3.720	3.480	.000		.000	
□	.108			1.000	PHI	135.000	
◇	.162						

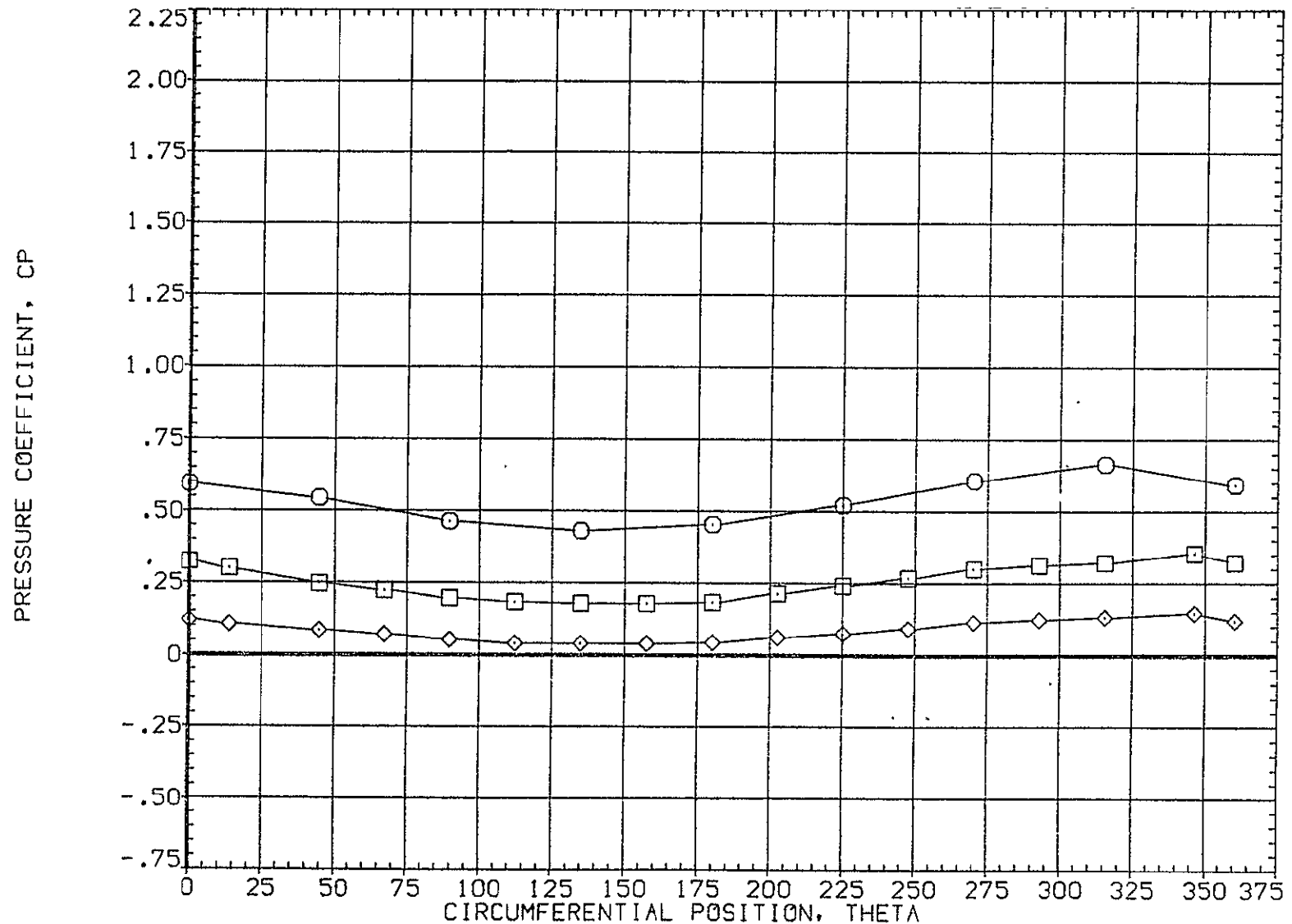


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	3.720	3.480	.000		.000
□	.322			1.000	PHI	135.000
◇	.518					

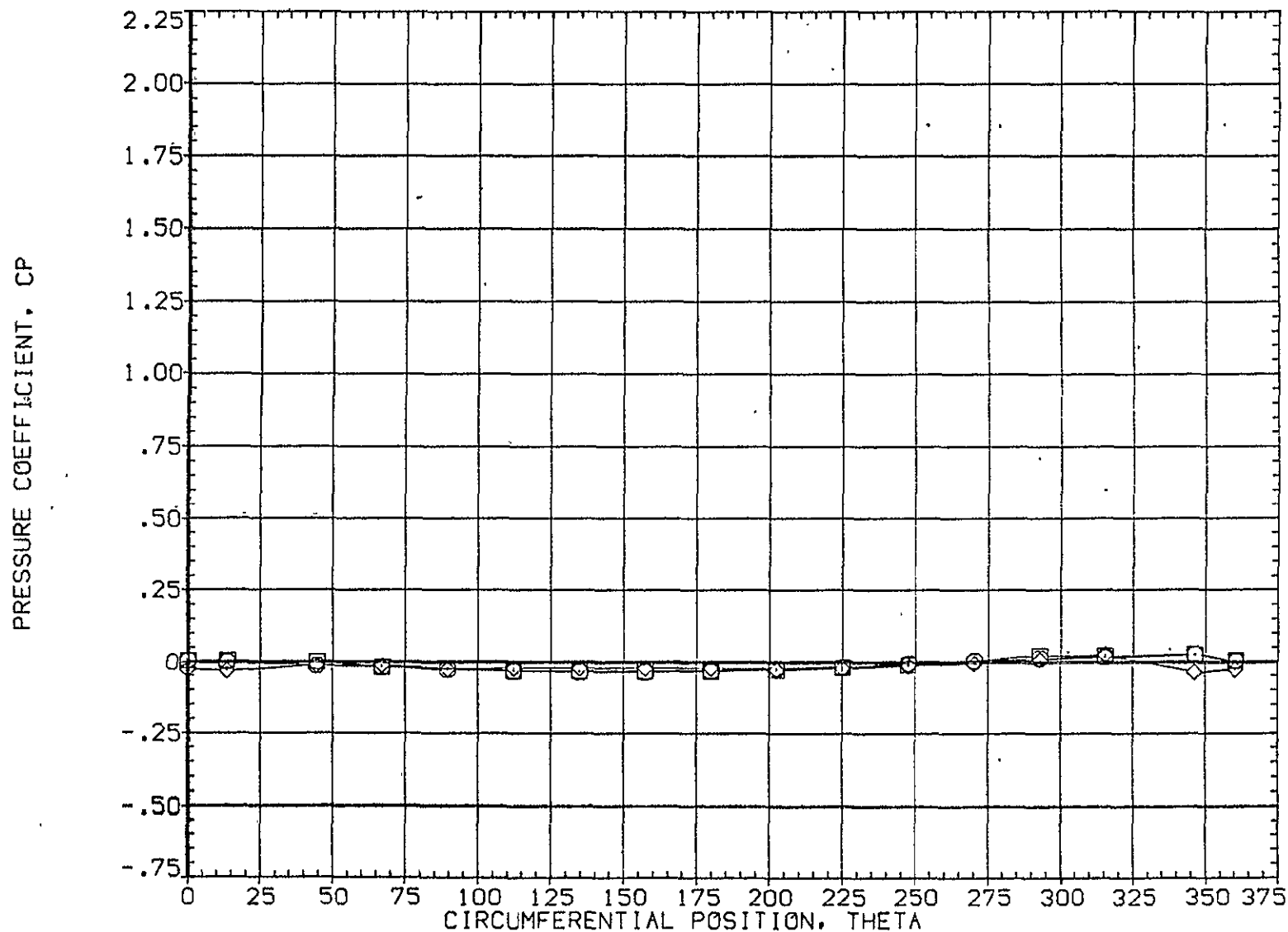


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A024)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	3.720	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	135.000
◇	.860						

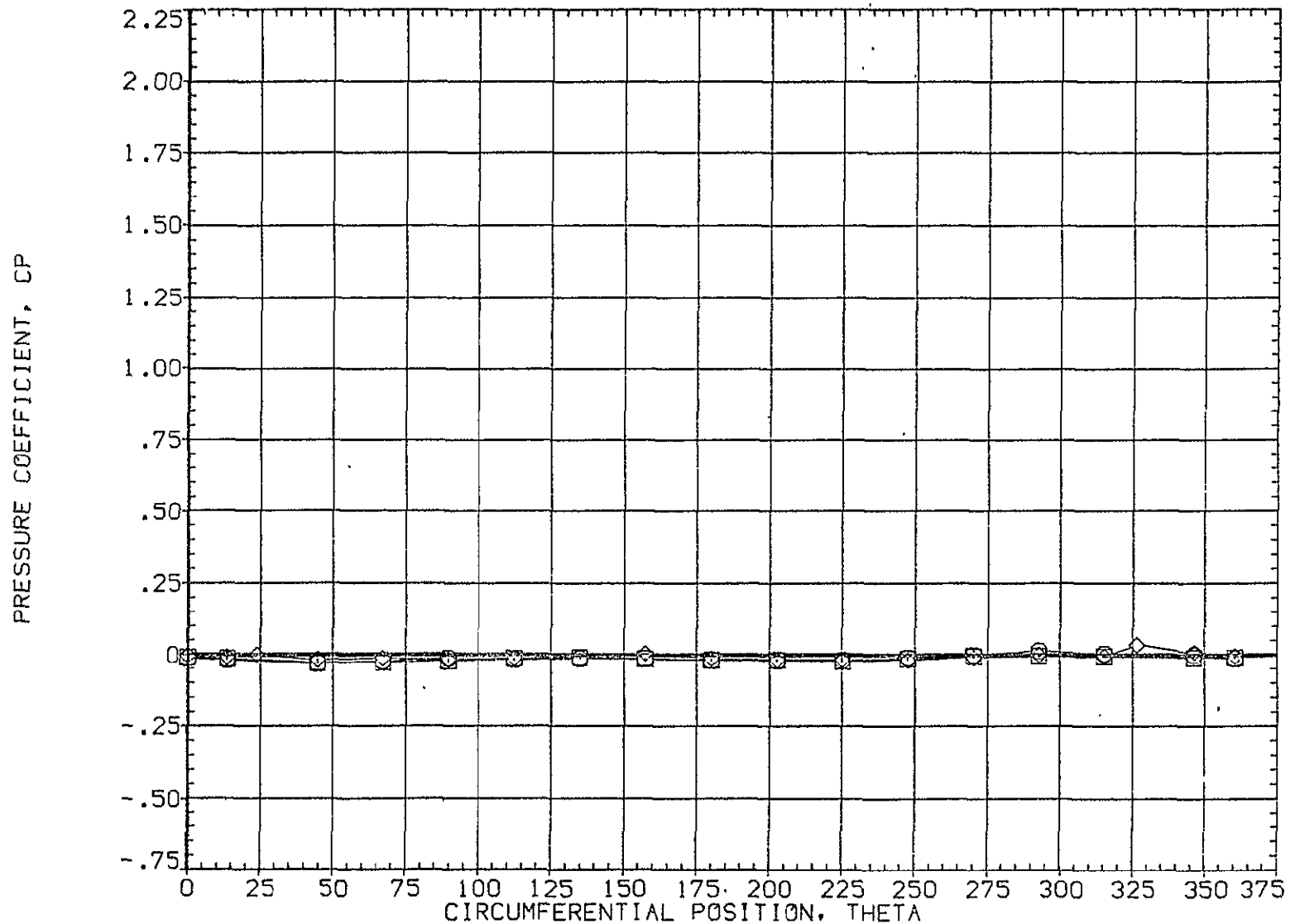


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	3.720	3.480	.000	.000	
□	.923			1.000	PHI	135.000
◇	.954					

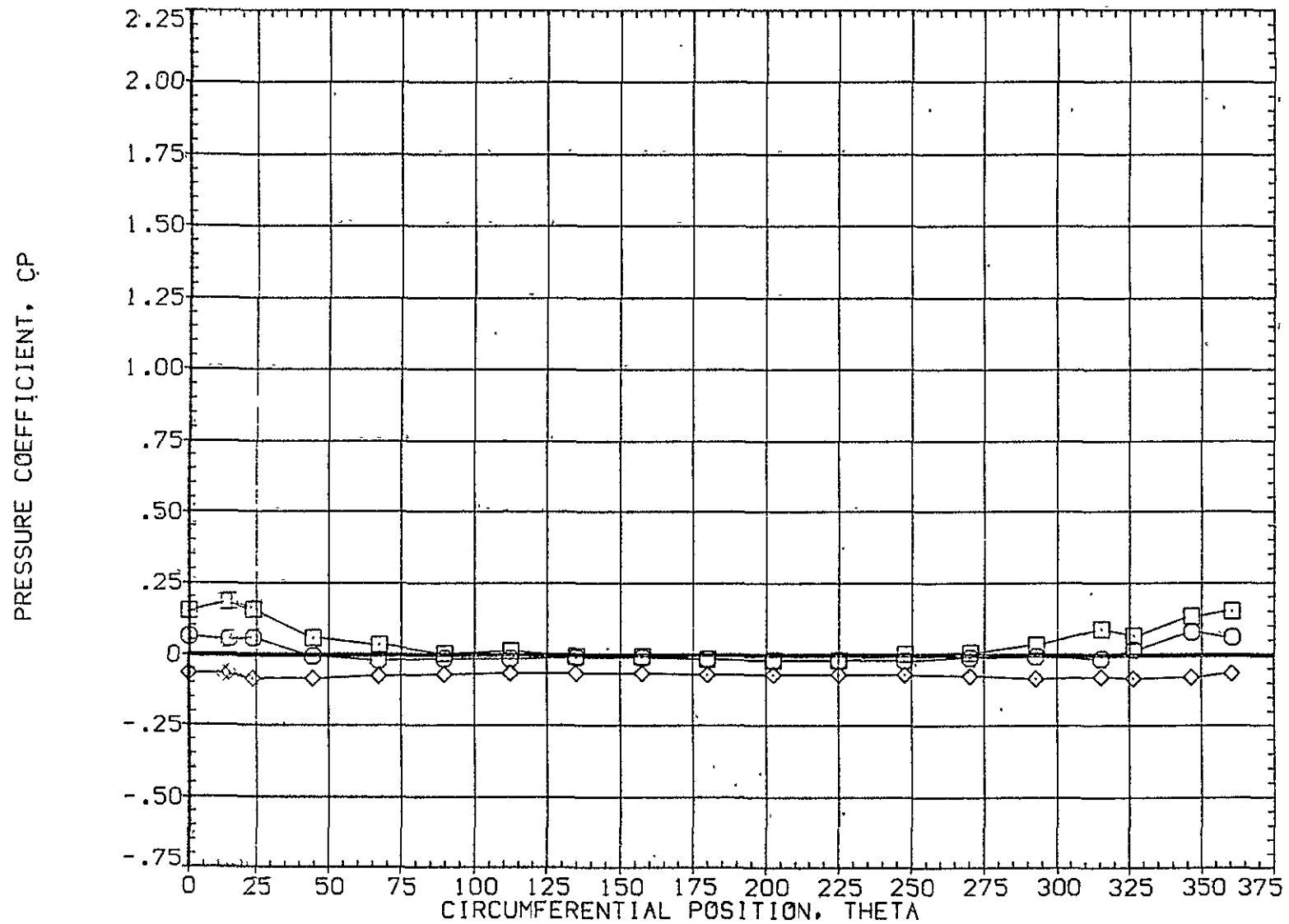


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A025)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	7.710	3.480	MOUNT	1.000	PHI	135.000
□	.108						
◇	.162						

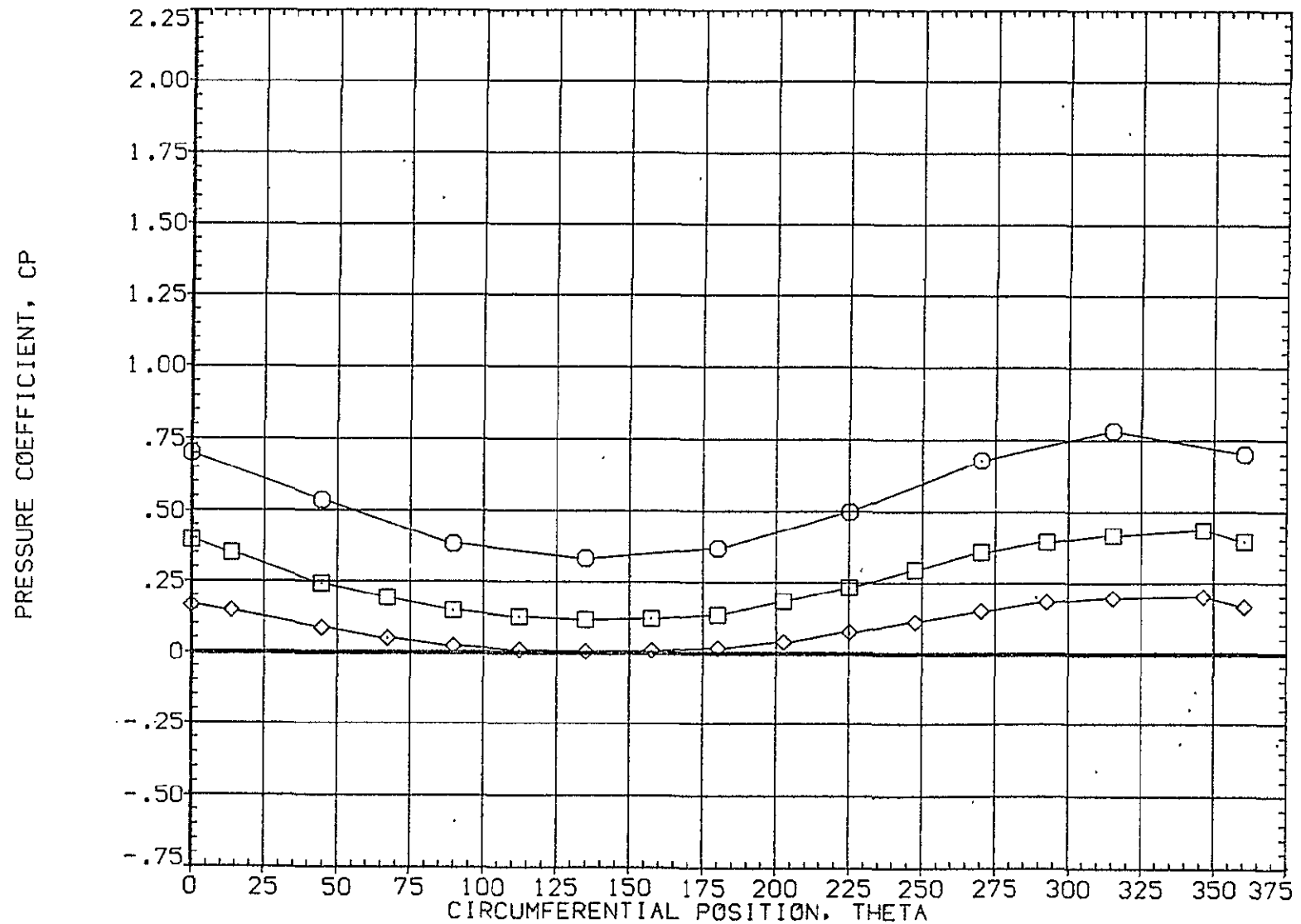


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	7.710	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET .000
MOUNT	1.000	PHI 135.000

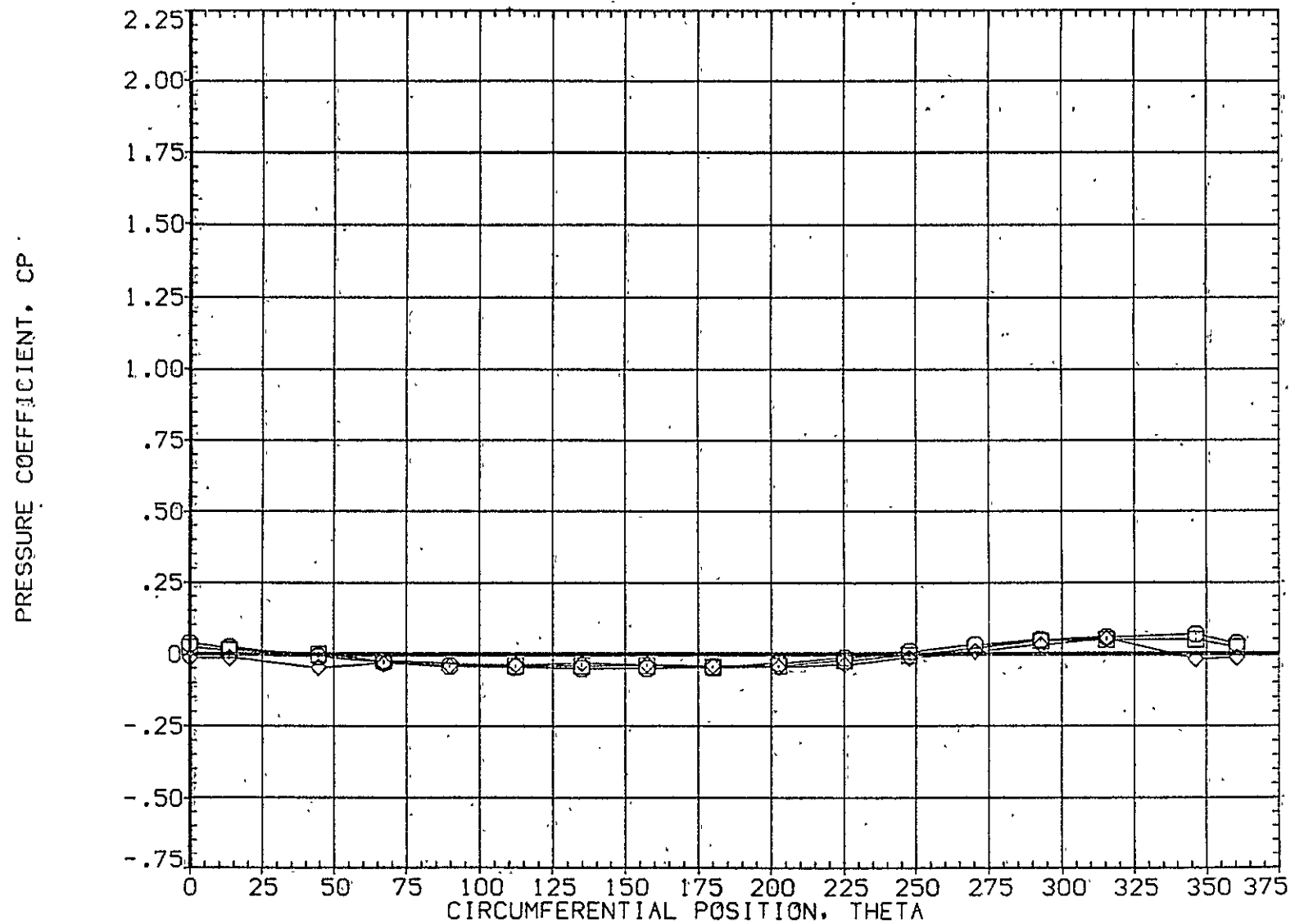


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A025)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	7.710	3.480	MOUNT	.000	PHI	.000
□	.735				1.000		135.000
◇	.860						

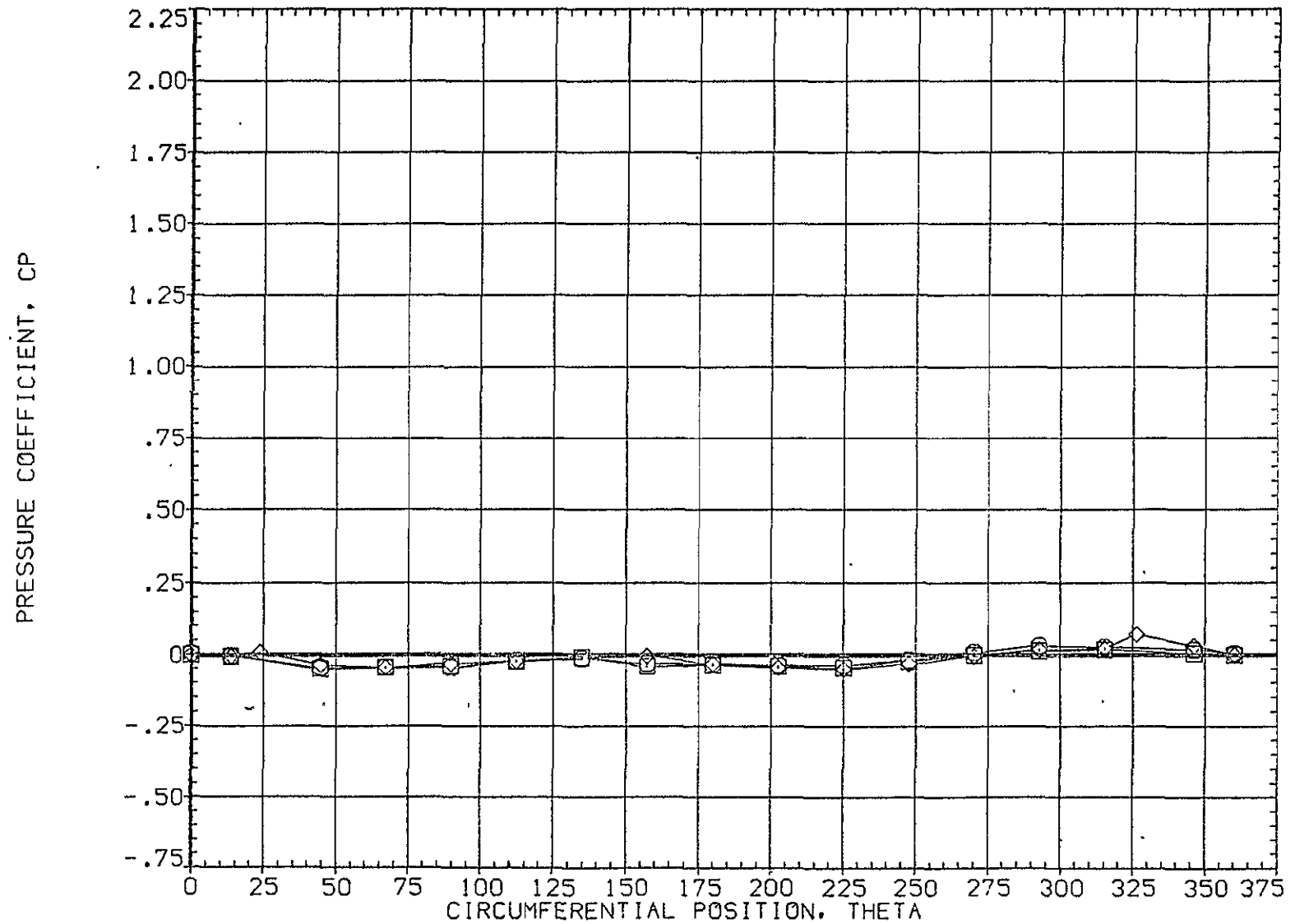


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	MCOUNT
○	.892	7.710	3.480	.000	.000	1.000
□	.923			1.000	135.000	
◇	.954					

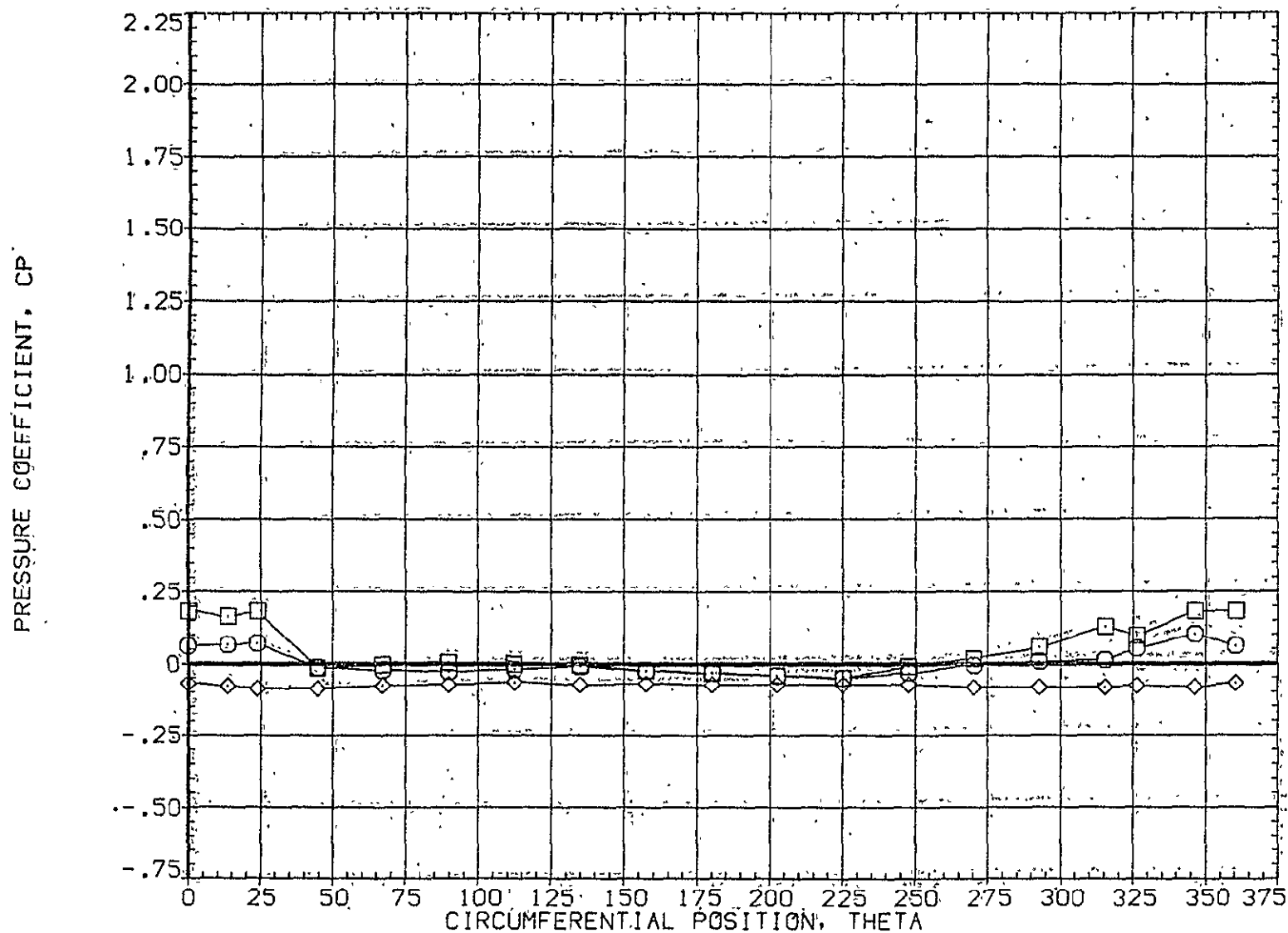


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A026)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	12.520	3.480	.000	OFFSET 20.000
□	.108			1.000	PHI 135.000
◇	.162				

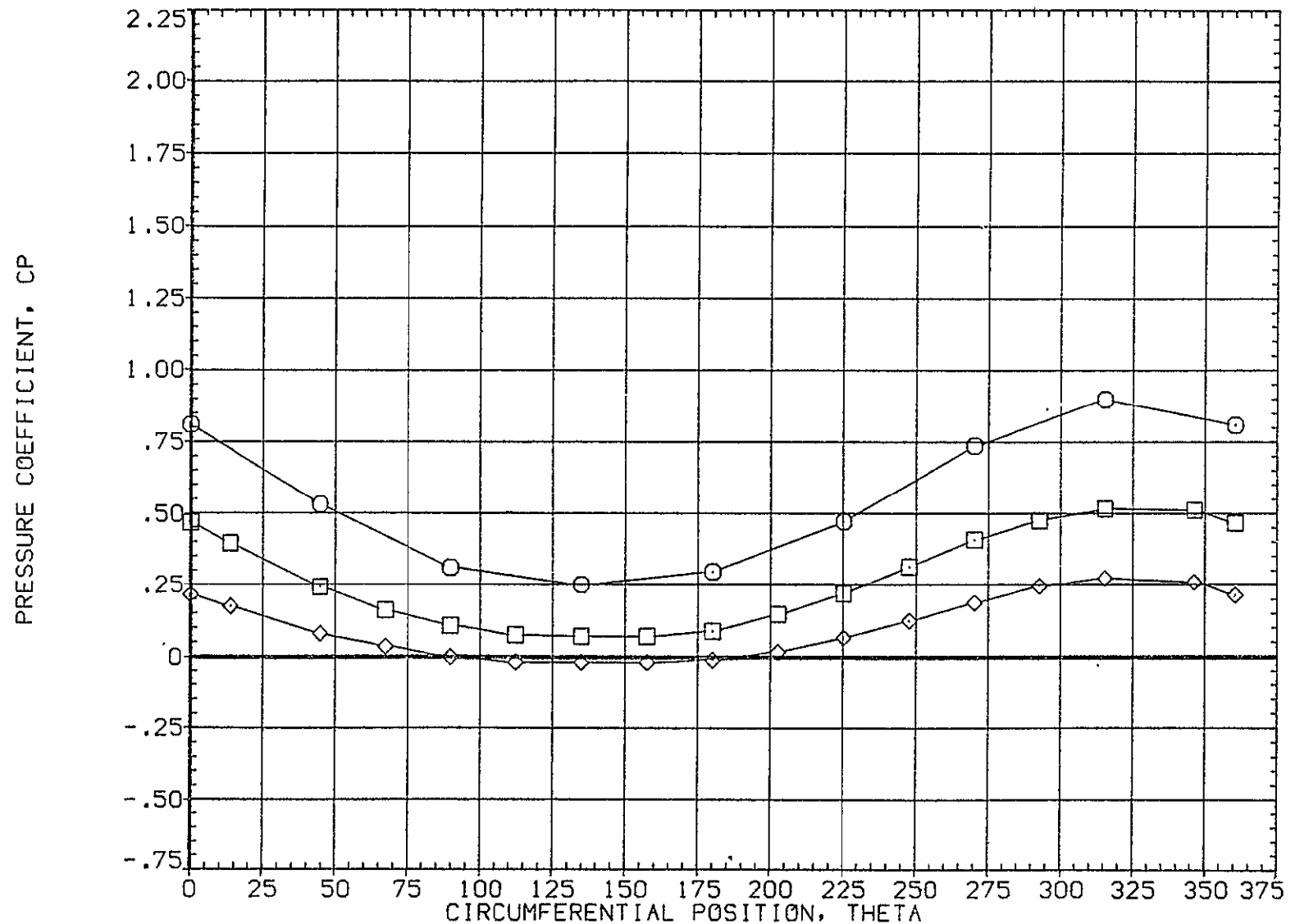


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

.216
.322
.518

ALPHA

12.520

MACH

3.480

PARAMETRIC VALUES

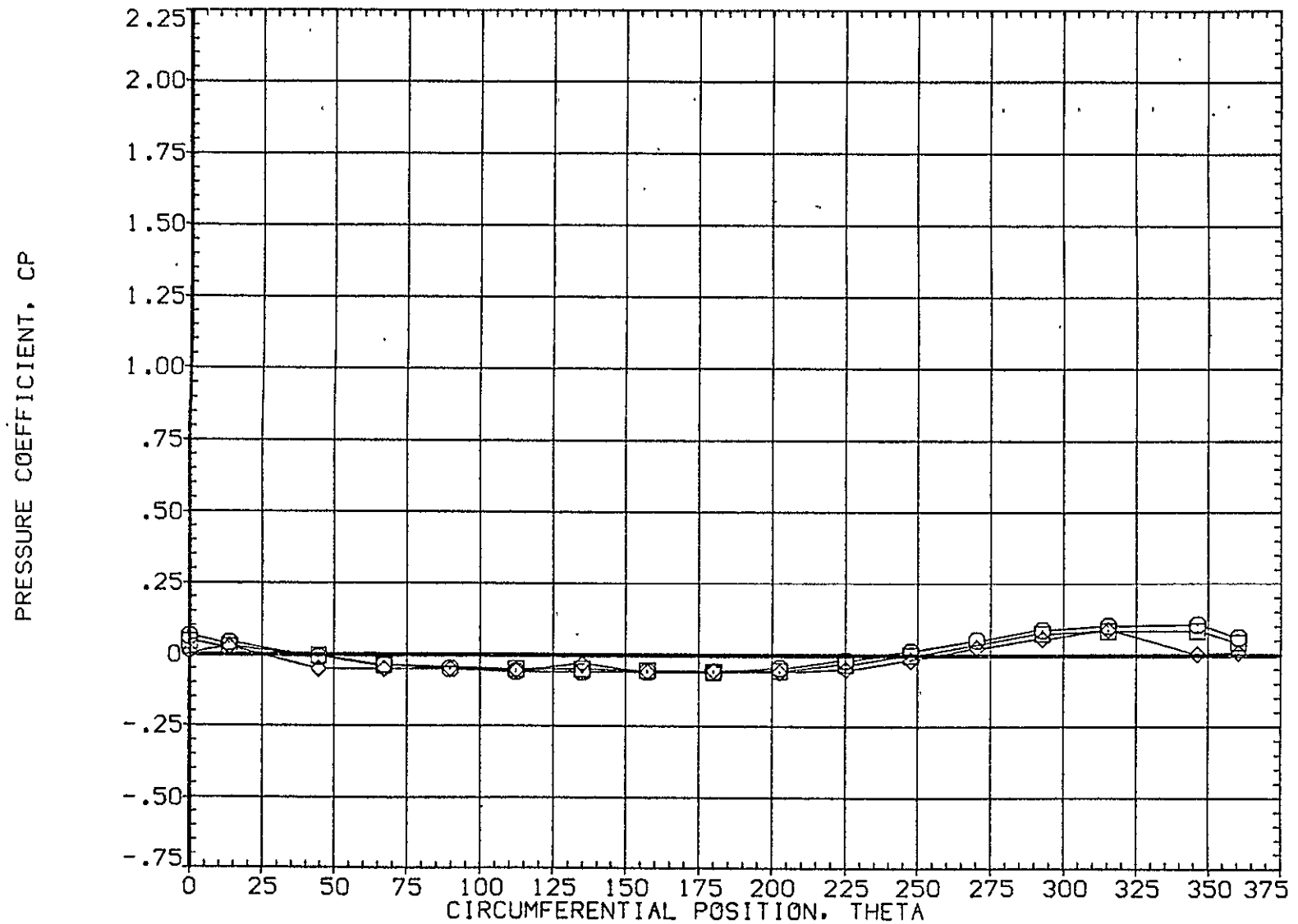
BETA
MOUNT.000
1.000OFFSET
PHI20.000
135.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A026)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.610	12.520	3.480	MOUNT	1.000	PHI 135.000
□	.735					
◇	.860					

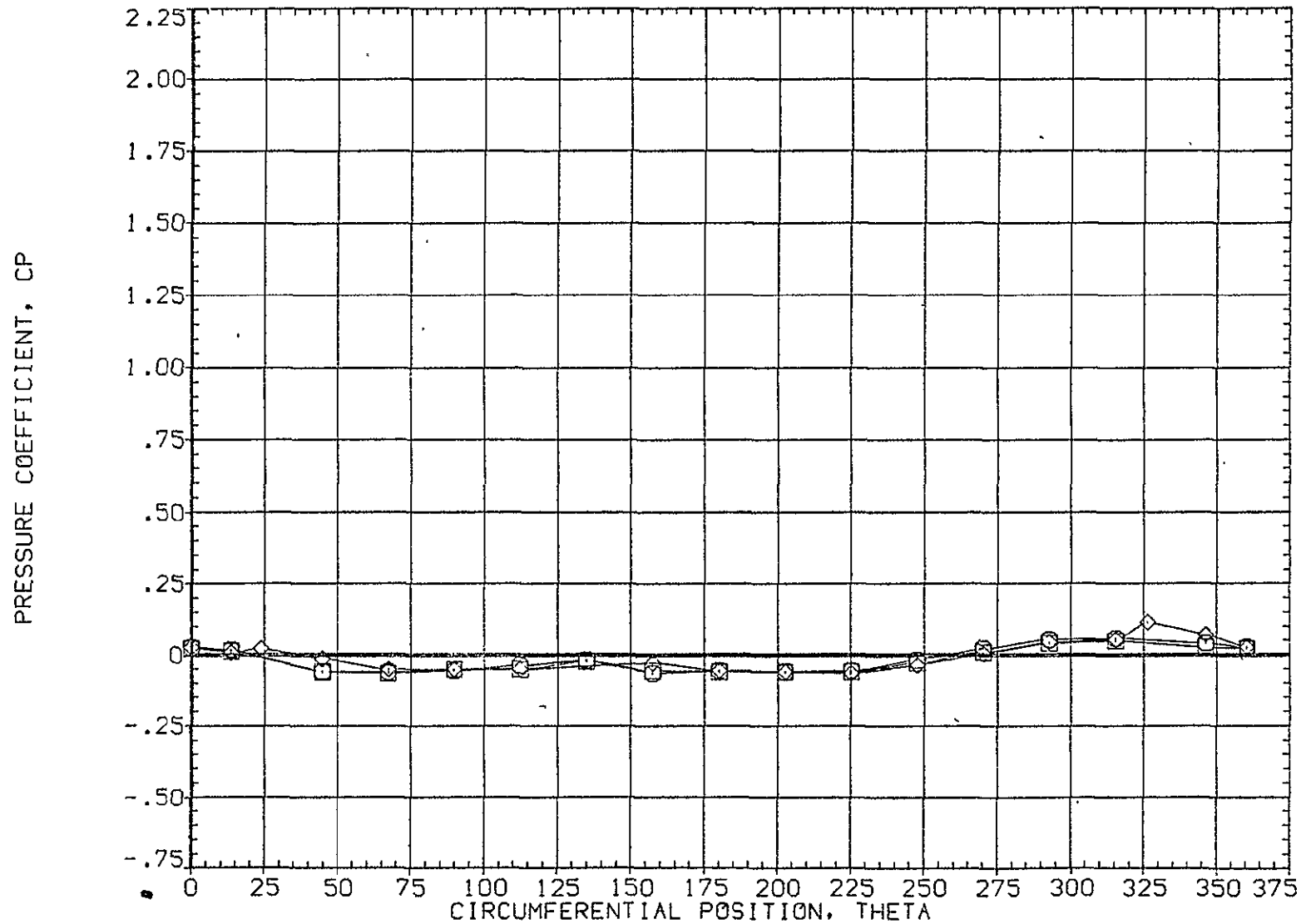


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/L0	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.892	12.520	3.480	MOUNT	.000	PHI	135.000.
□	.923						
◇	.954						

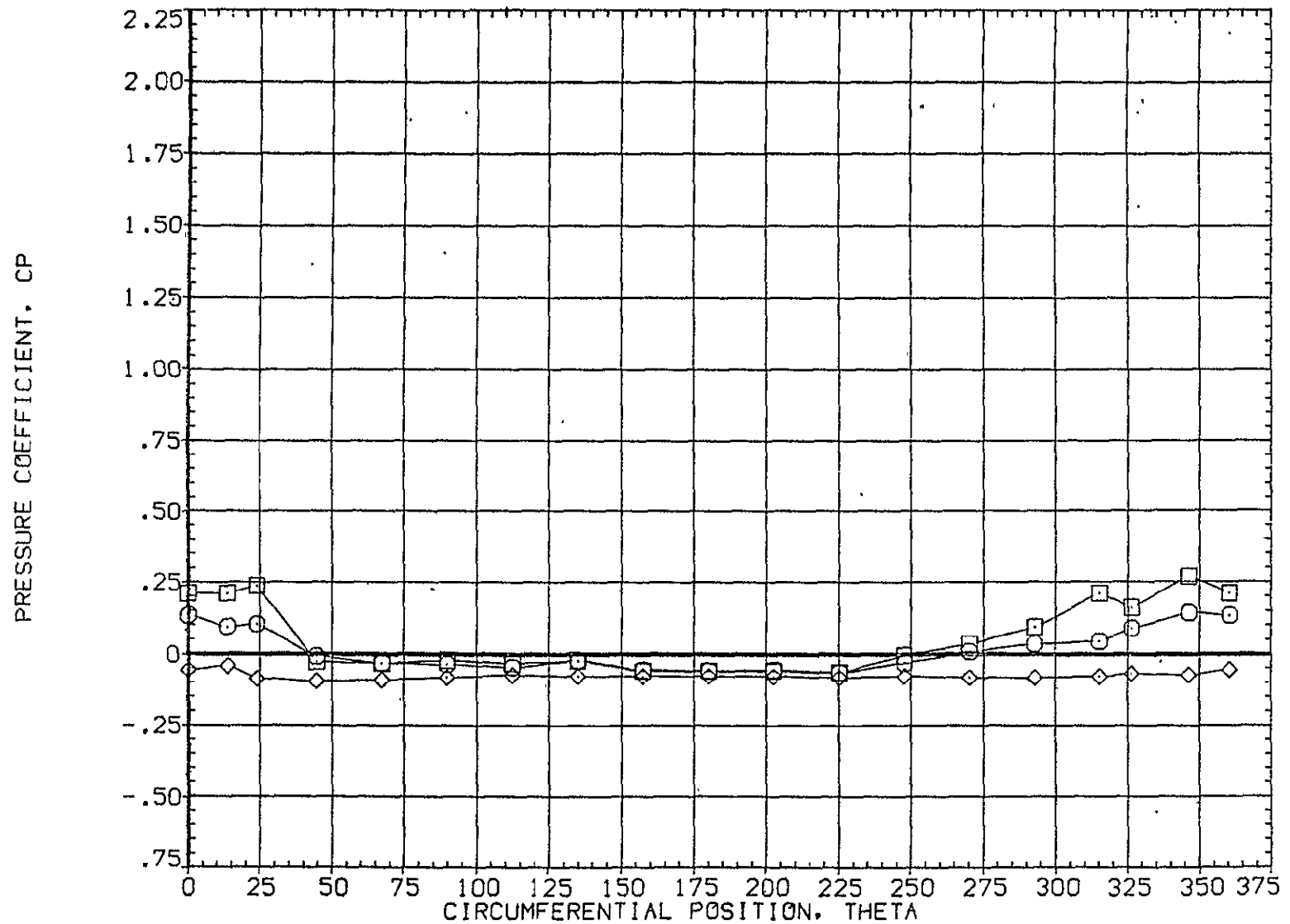


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A027)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	16.540	3.480	MOUNT	.000	PHI	135.000
□	.108				1.000		
◇	.162						

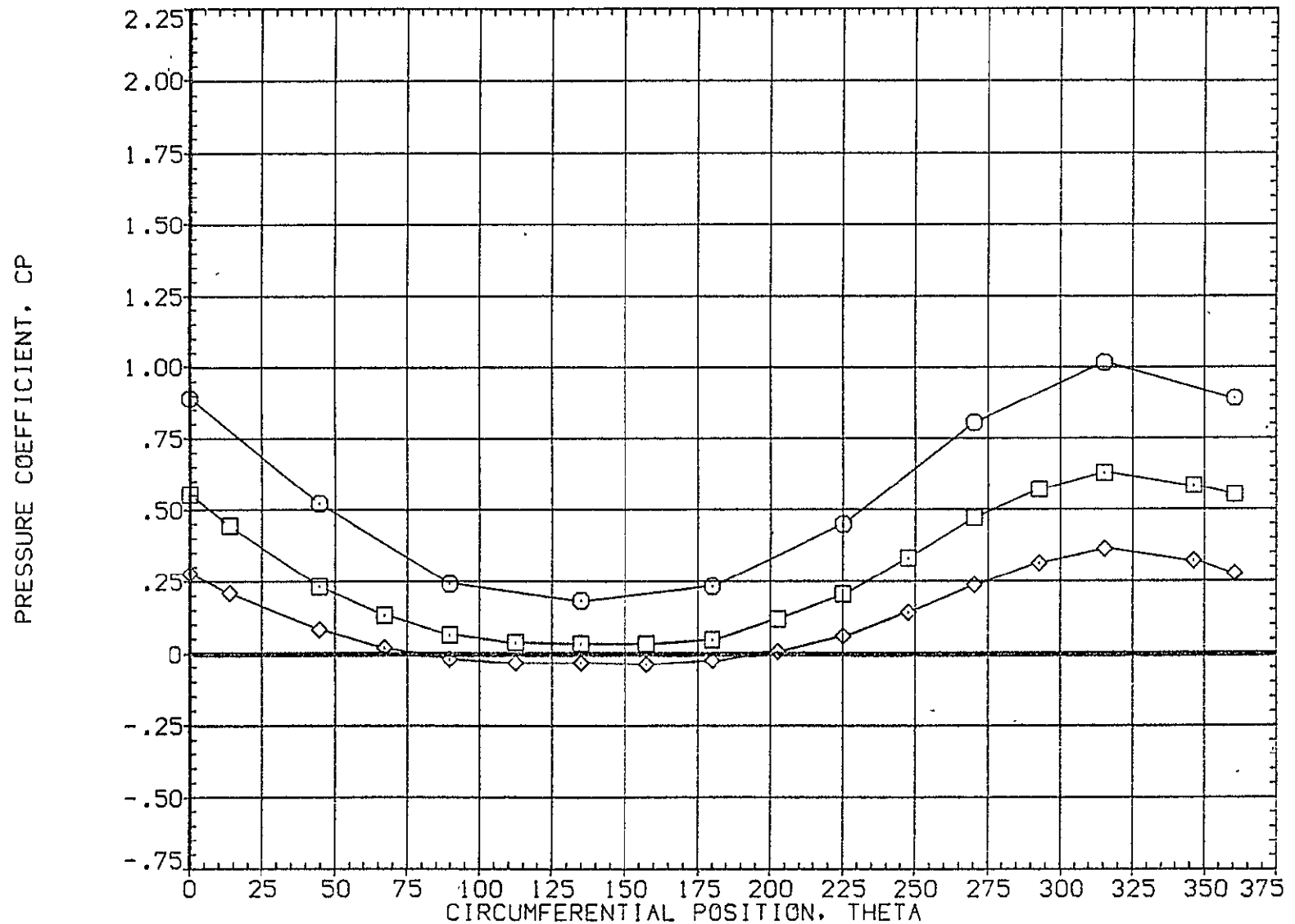


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

○
□
◇.216
.322
.518

16.540

3.480

BETA
MOUNT

PARAMETRIC VALUES

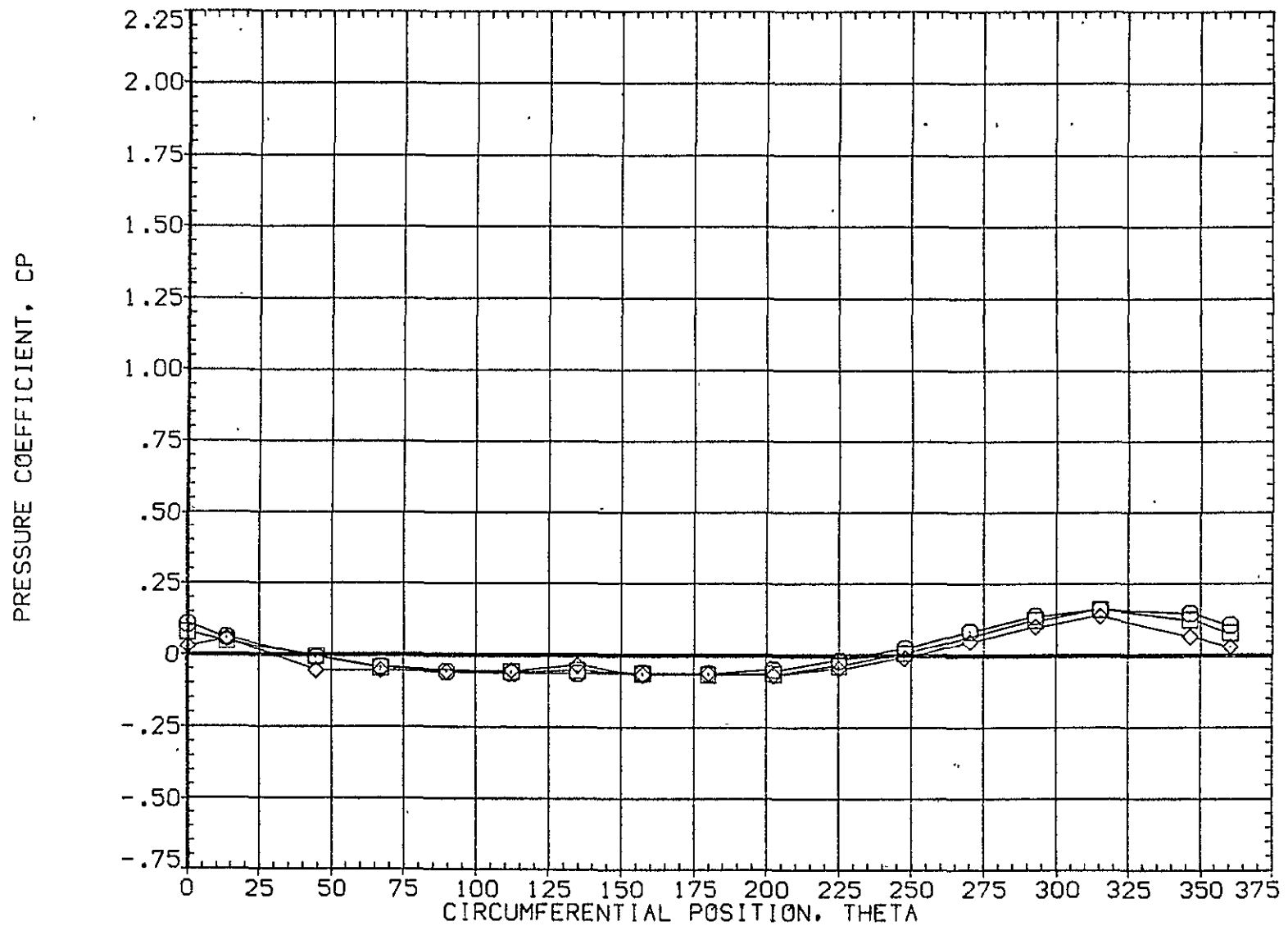
.000
1.000OFFSET
PHI20.000
135.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A027)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	20.000	
○	.610	16.540	3.480	MOUNT	1.000	PHI	135.000
□	.735						
◇	.860						

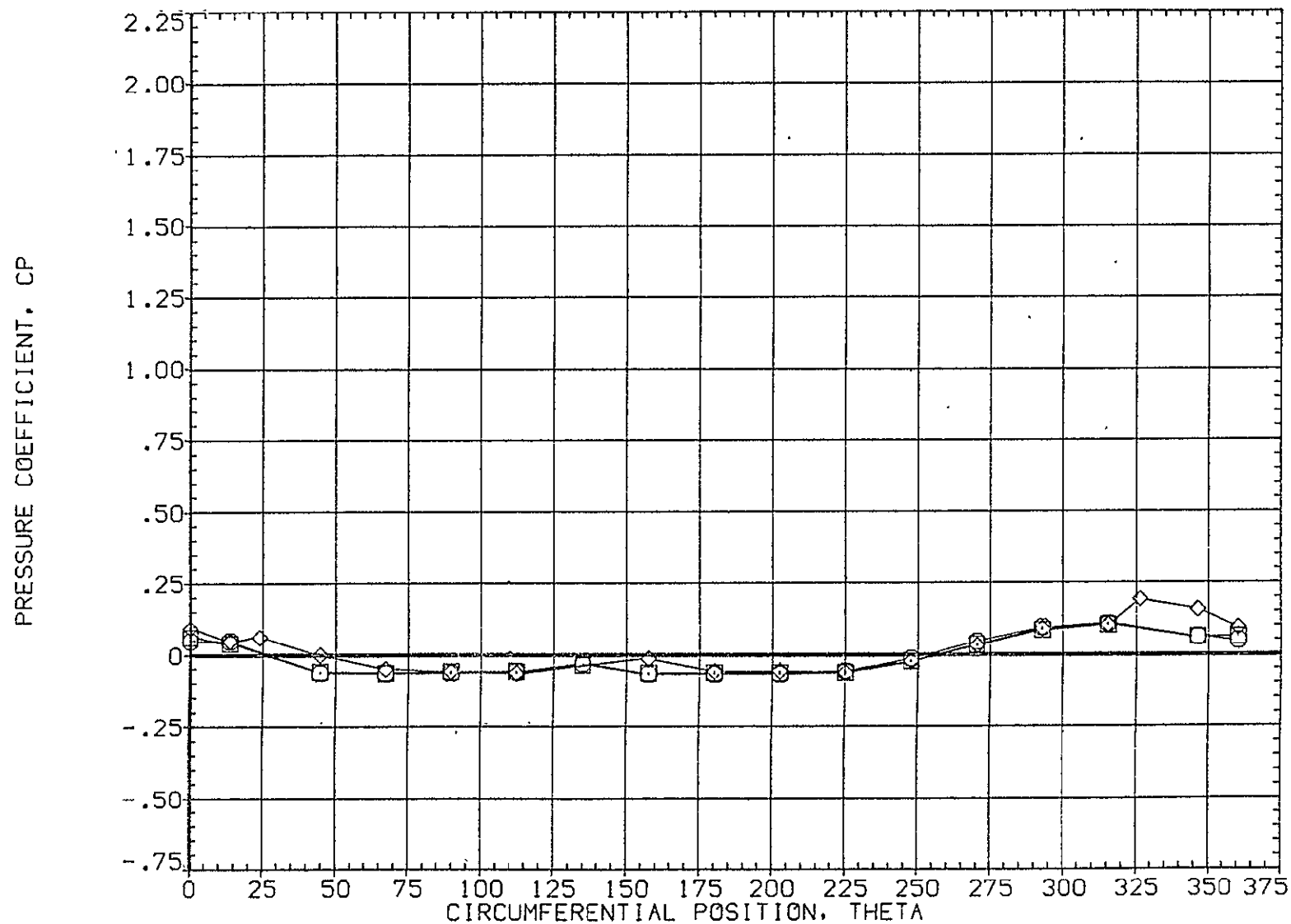


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.892	16.540	3.480	BETA	.000	OFFSET 20.000
□	.923			MOUNT	1.000	PHI 135.000
◇	.954					

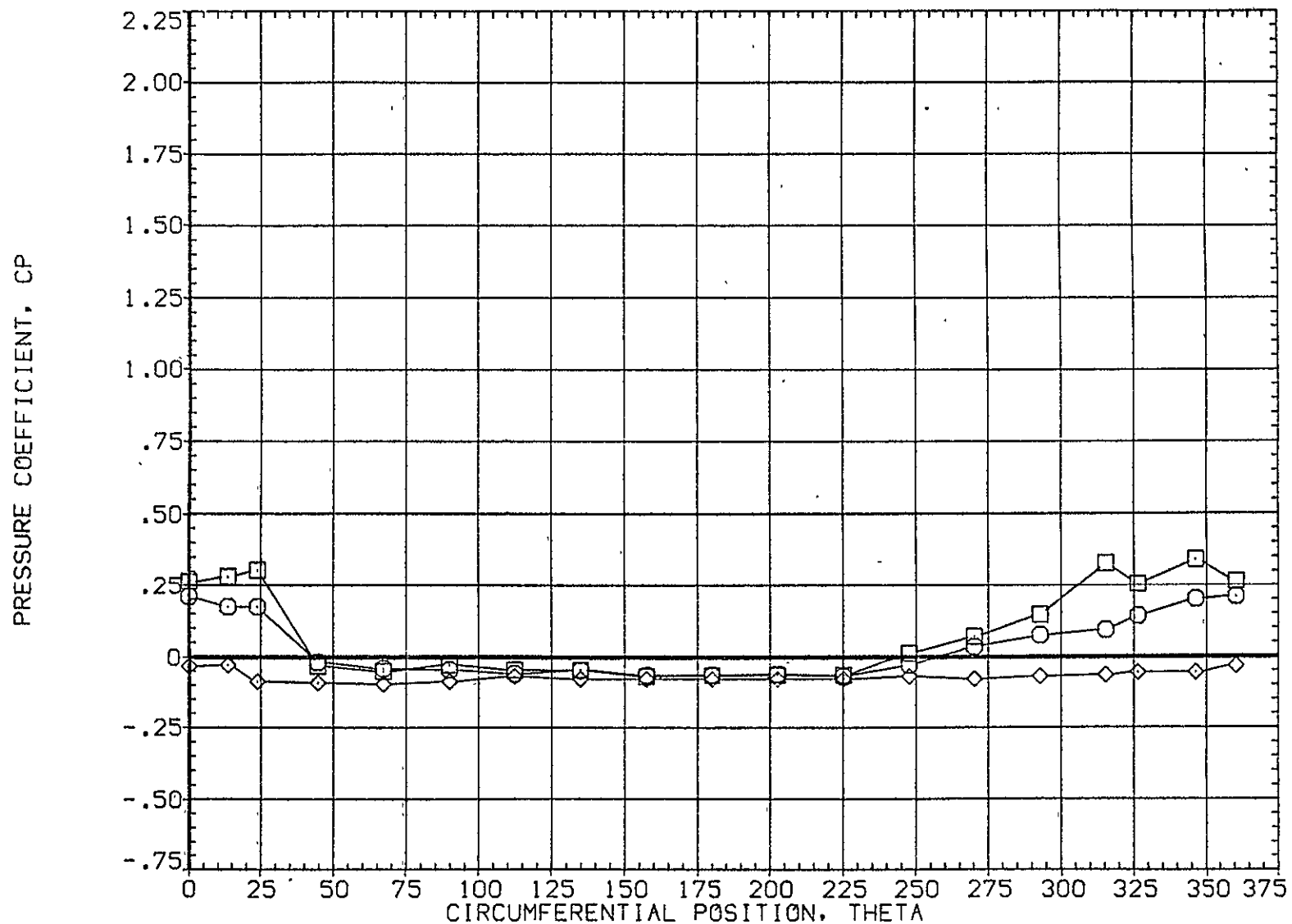


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 135.000
○	.055	20.610	3.480			
□	.108					
◇	.162					

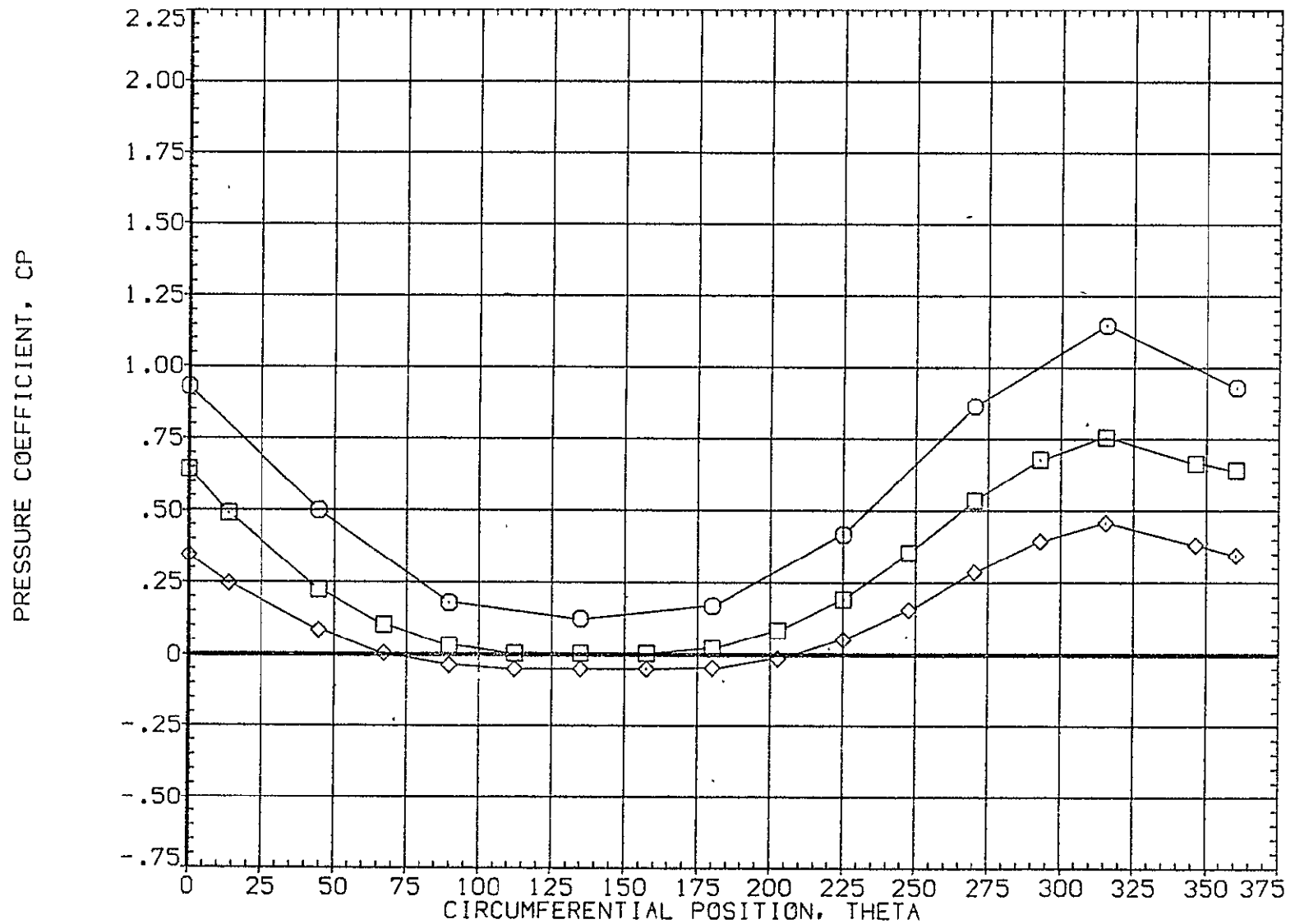


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.610	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	135.000

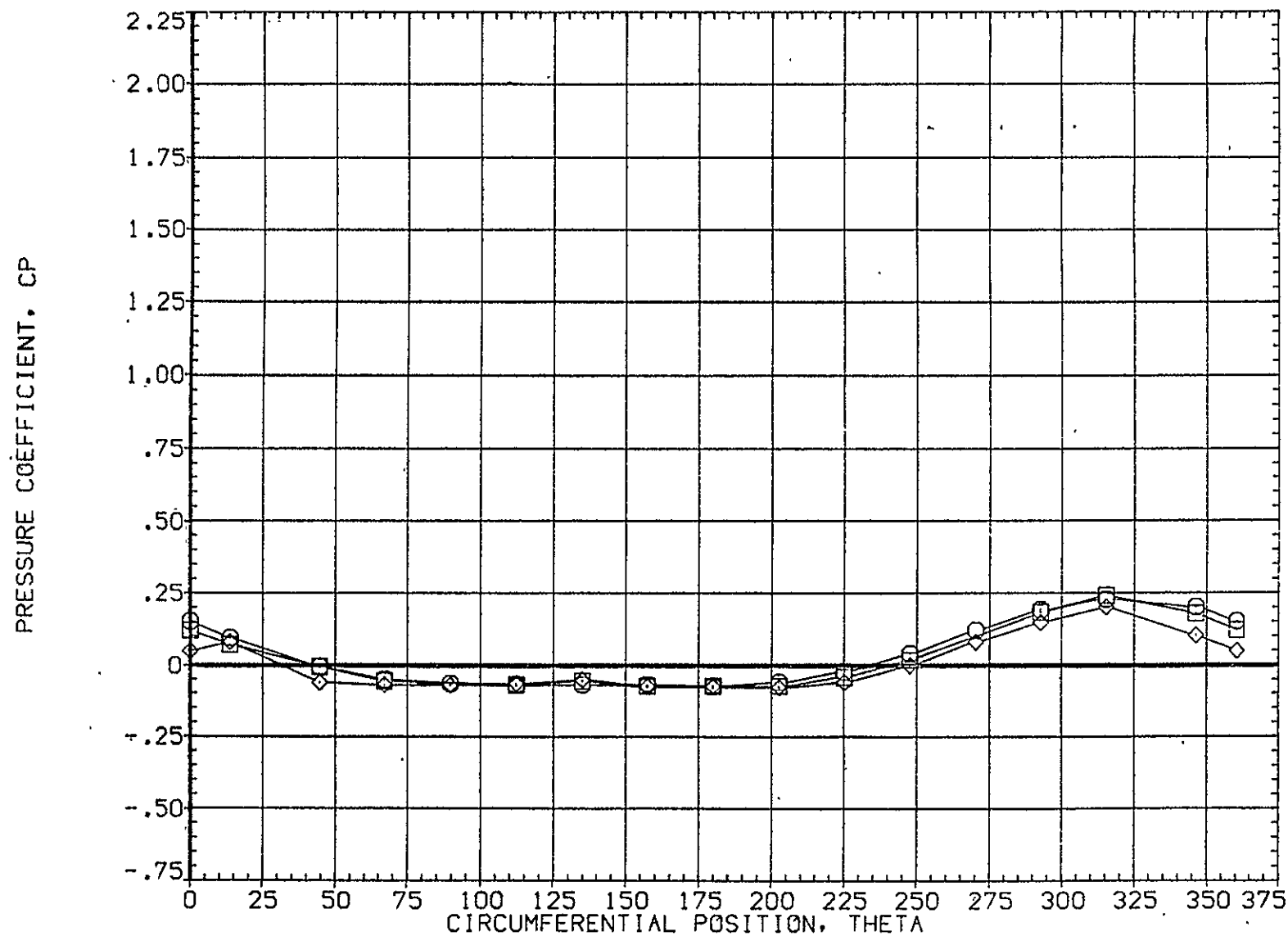


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A028)

SYMBOL	X/LB	ALPHA	MACH
○	.610	20.610	3.480
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	135.000

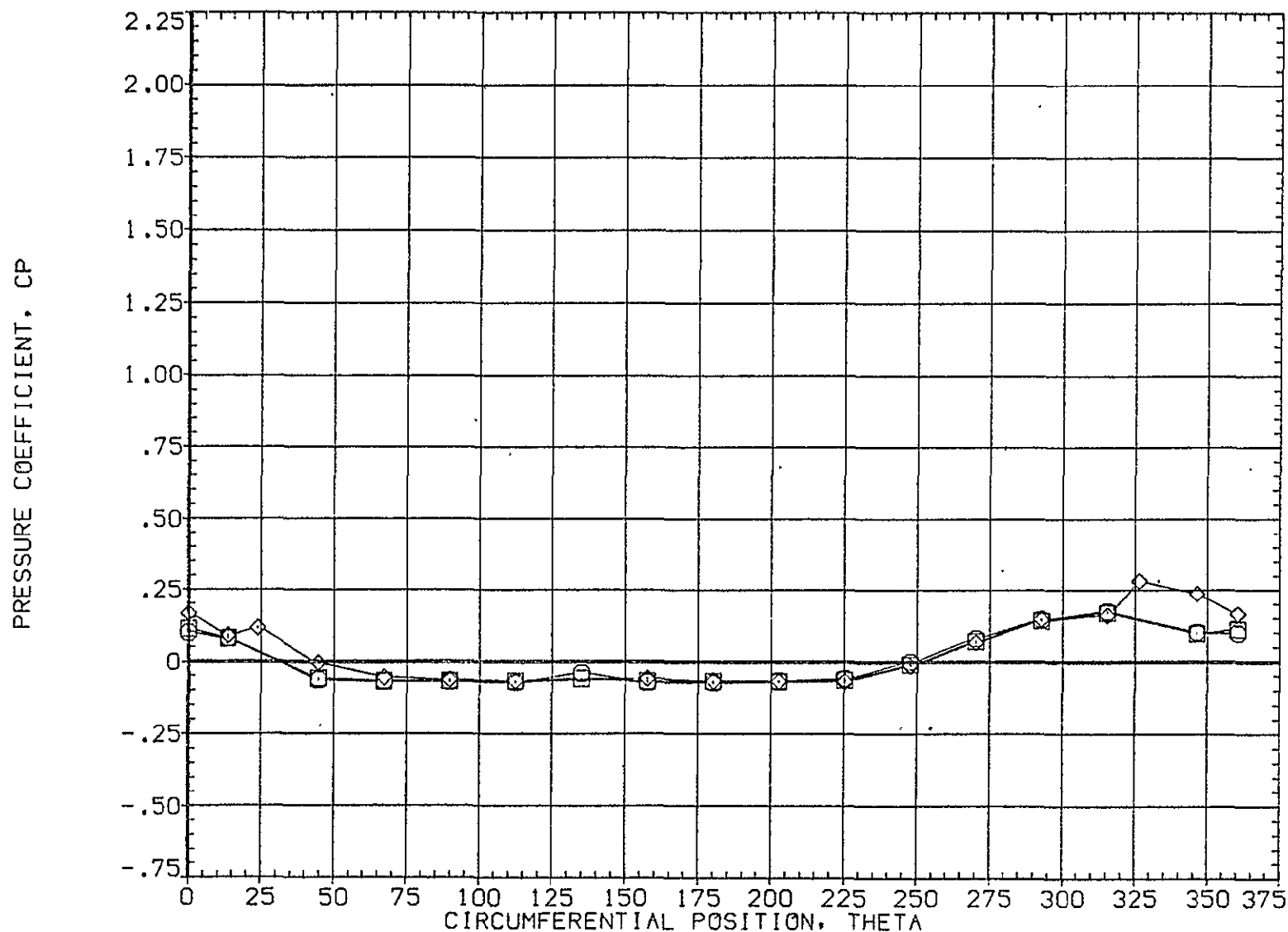


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL
○
□
◇X/LB
.892
.923
.954ALPHA
20.610MACH
3.480BETA
MOUNT

PARAMETRIC VALUES

.000 OFFSET

20.000

1.000 PHI

135.000

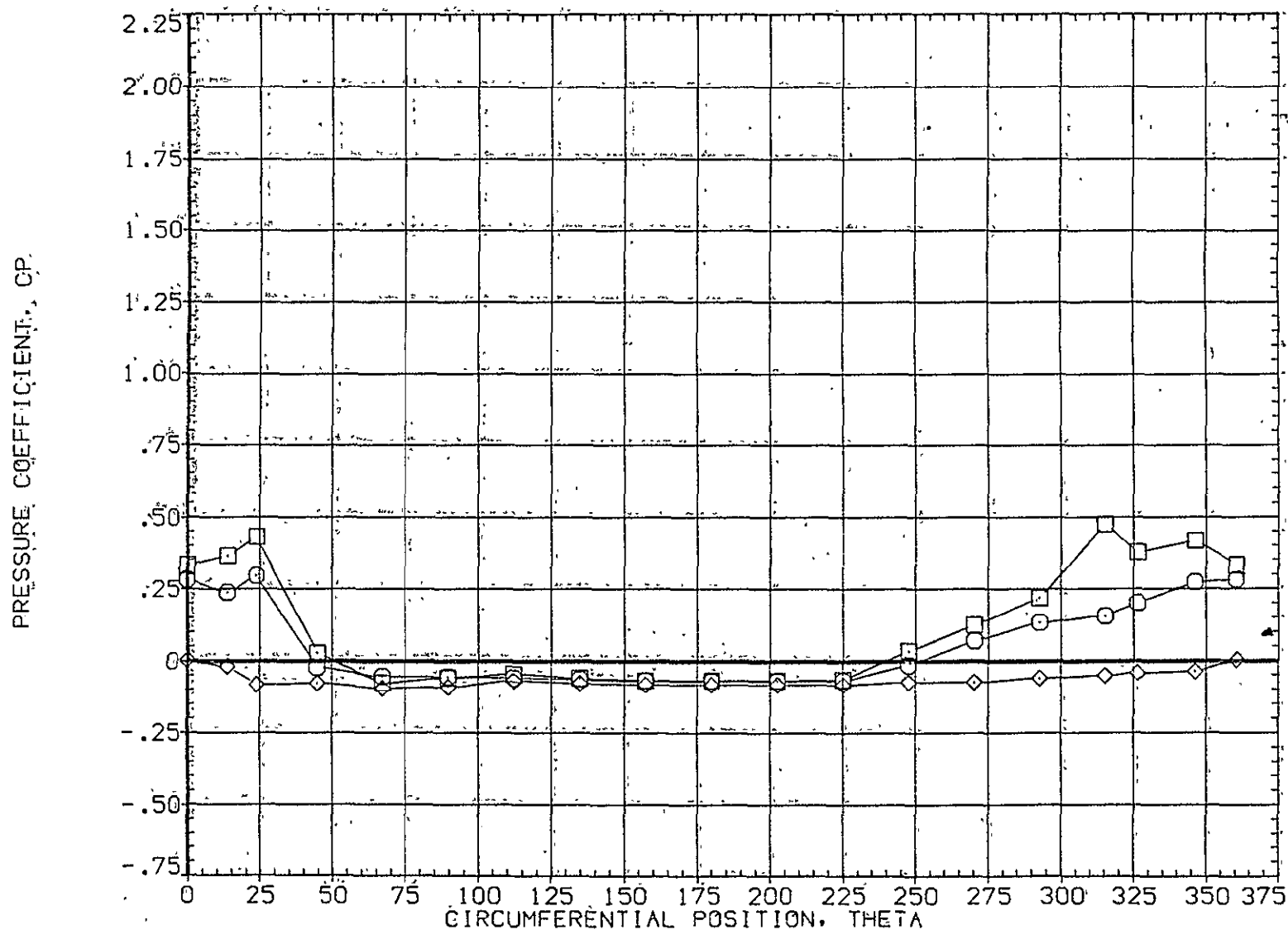


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	24.660	3.480	MOUNT	.000	PHI	135.000
□	.108				1.000		
◇	.162						

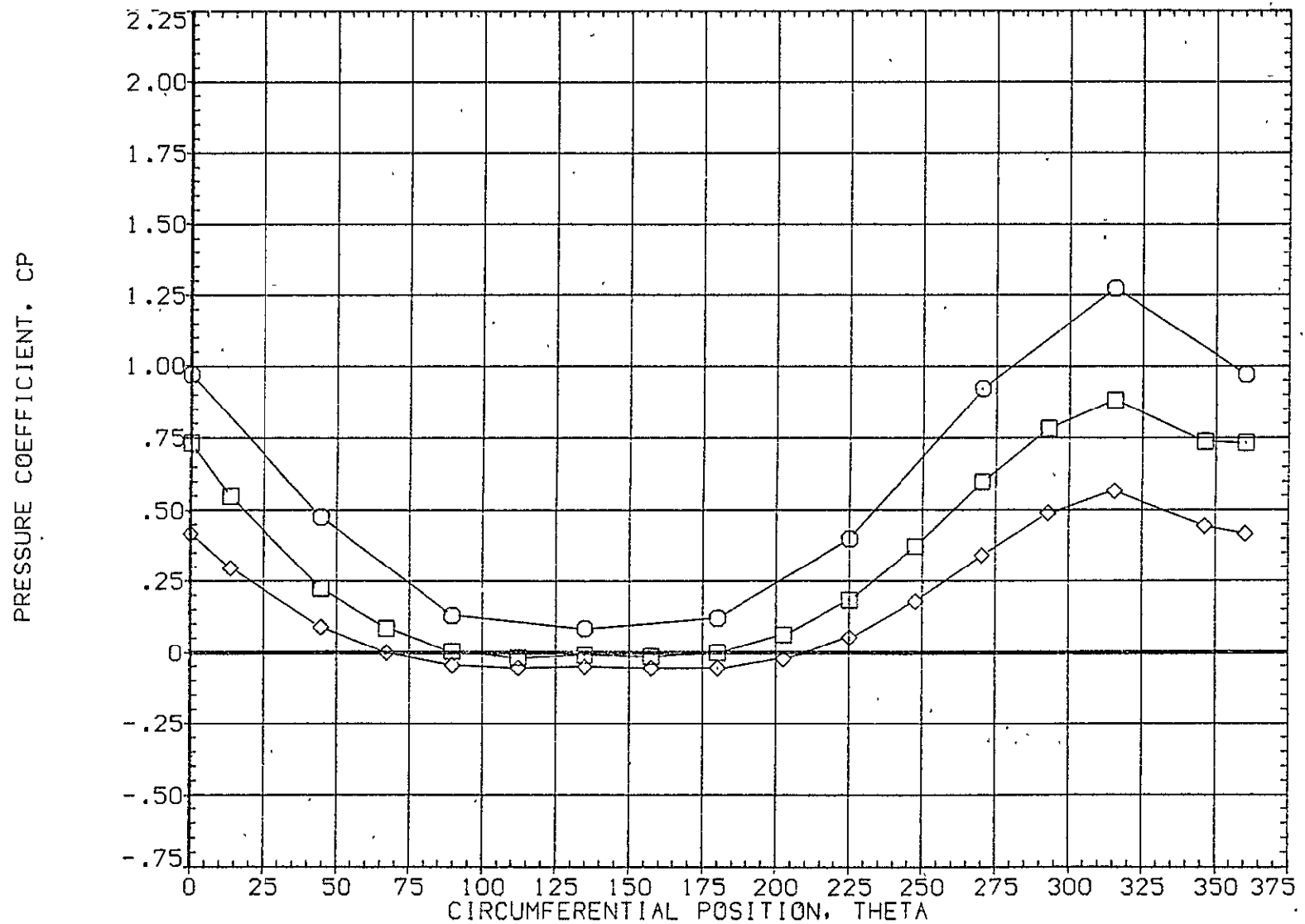


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	24.660	3.480	BETA	.000	OFFSET 20.000
□	.322			MOUNT	1.000	PHI 135.000
◇	.518					

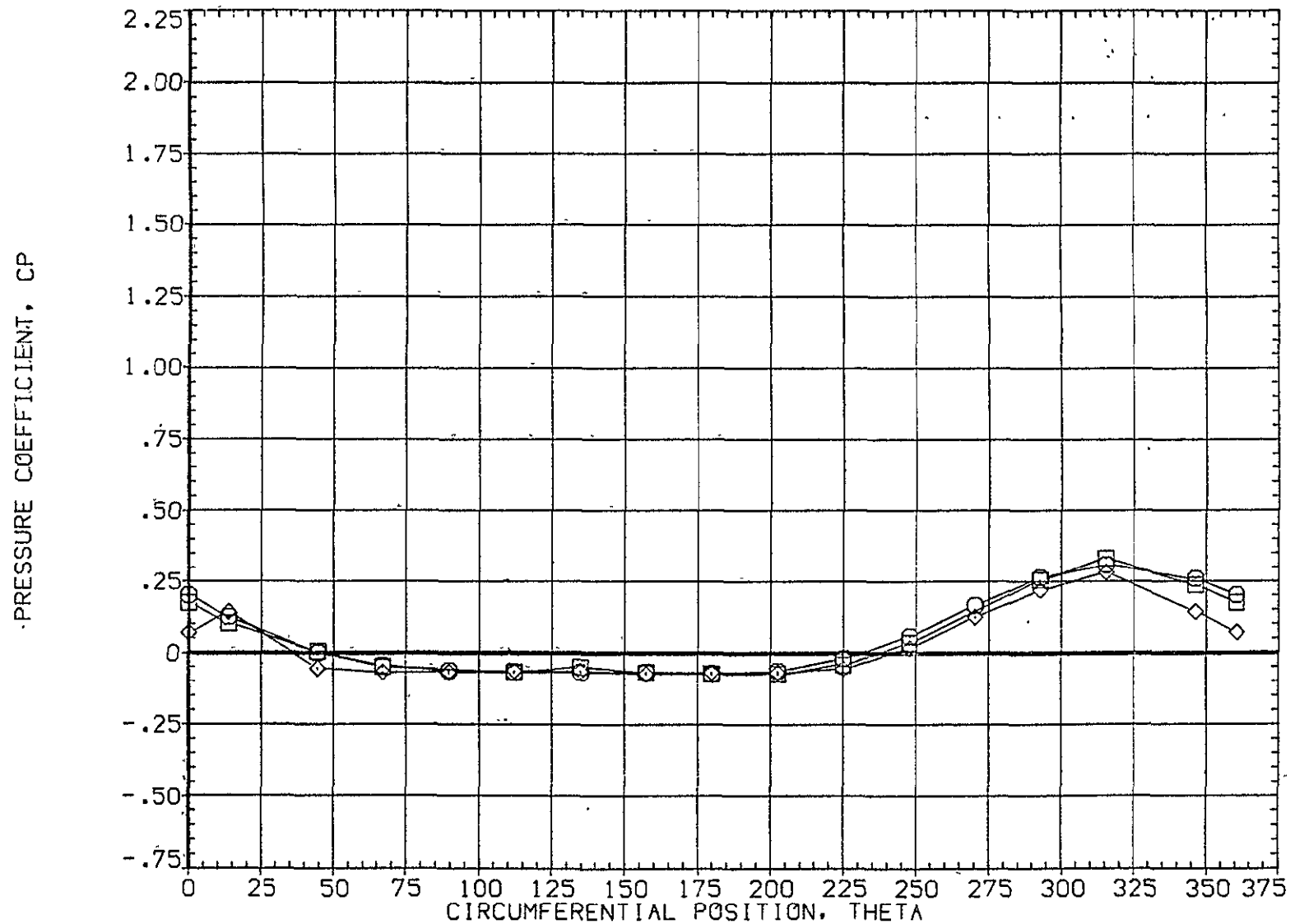


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A029)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	24.660	3.480	.000	OFFSET 20.000
□	.735			1.000	PHI 135.000
◇	.860				

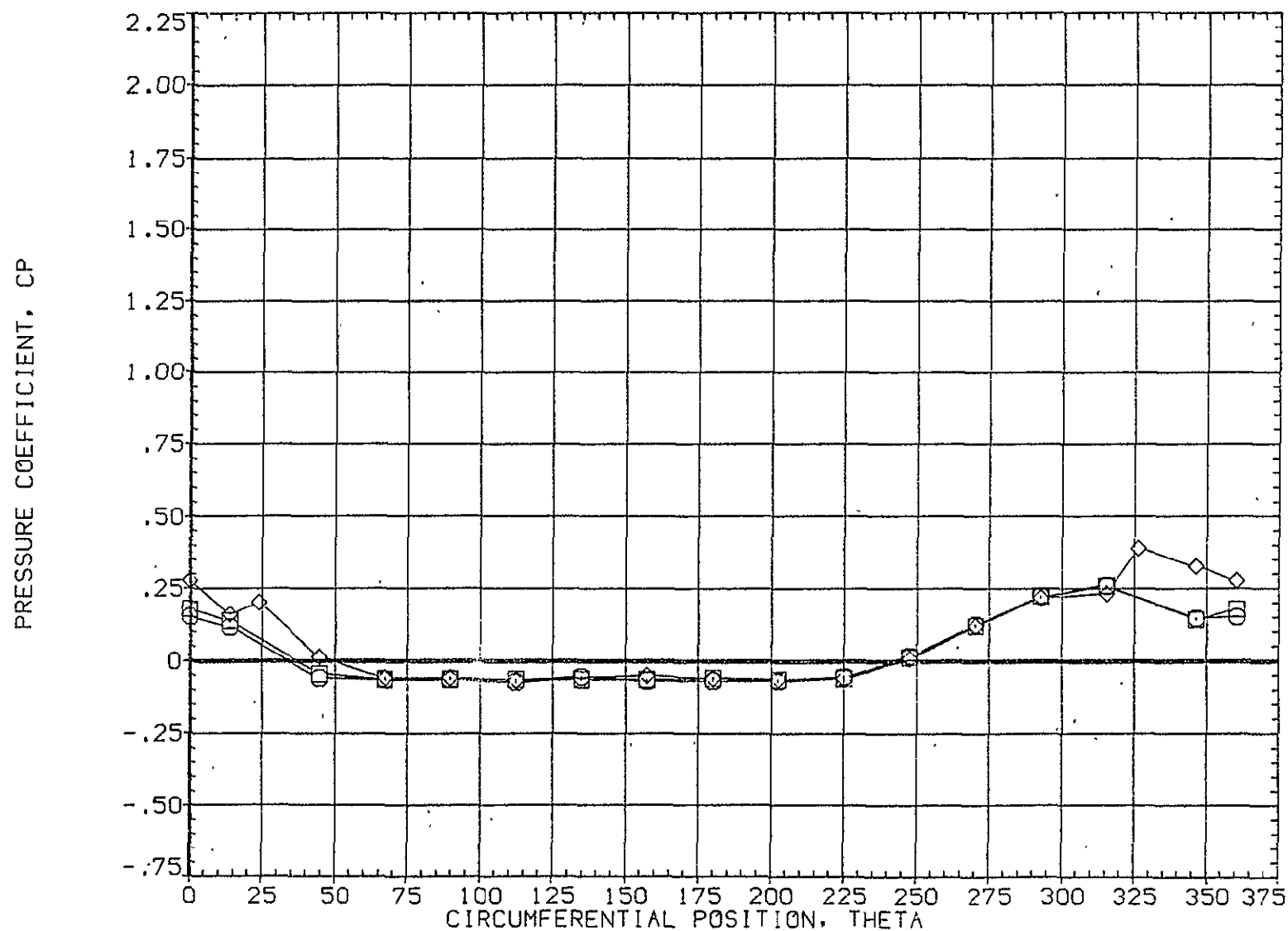


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	24.660	3.480			20.000
□	.923			MOUNT	1.000	PHI
◇	.954					135.000

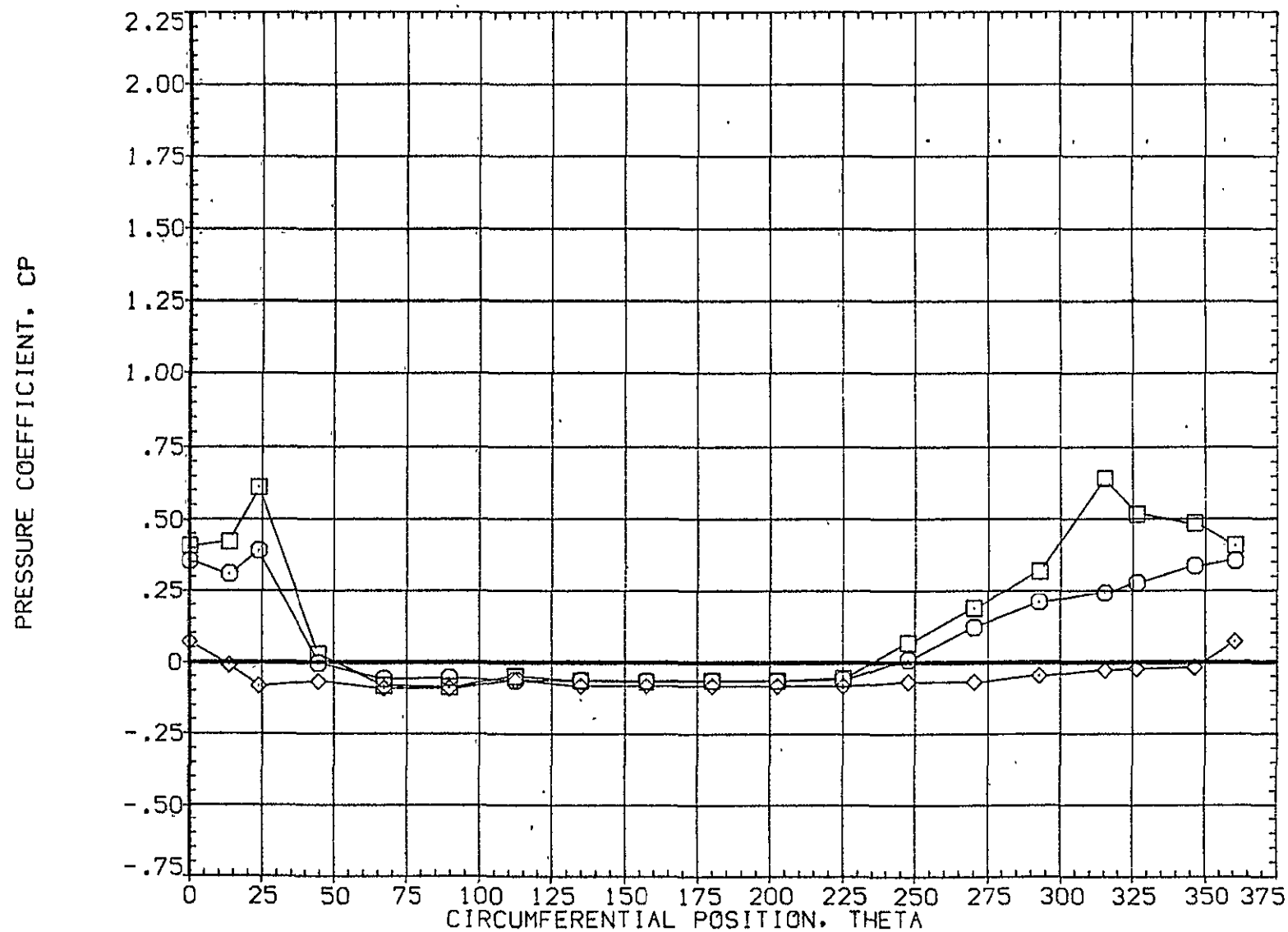


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A030)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	29.700	3.480	MOUNT	.000 OFFSET 20.000
□	.108				1.000 PHI 135.000
◇	.162				

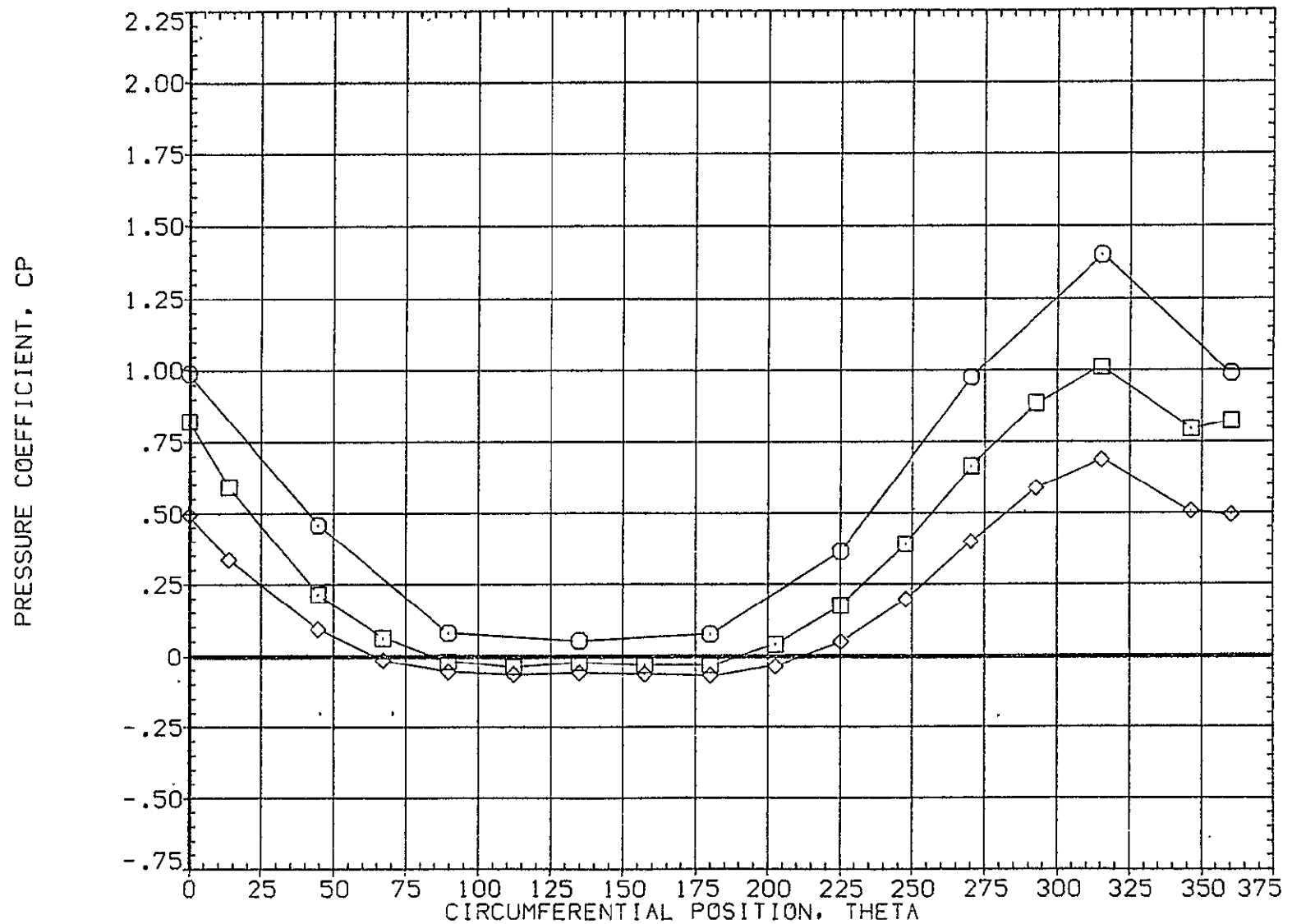


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	28.700	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	20.000
ANGLE	PHI	135.000

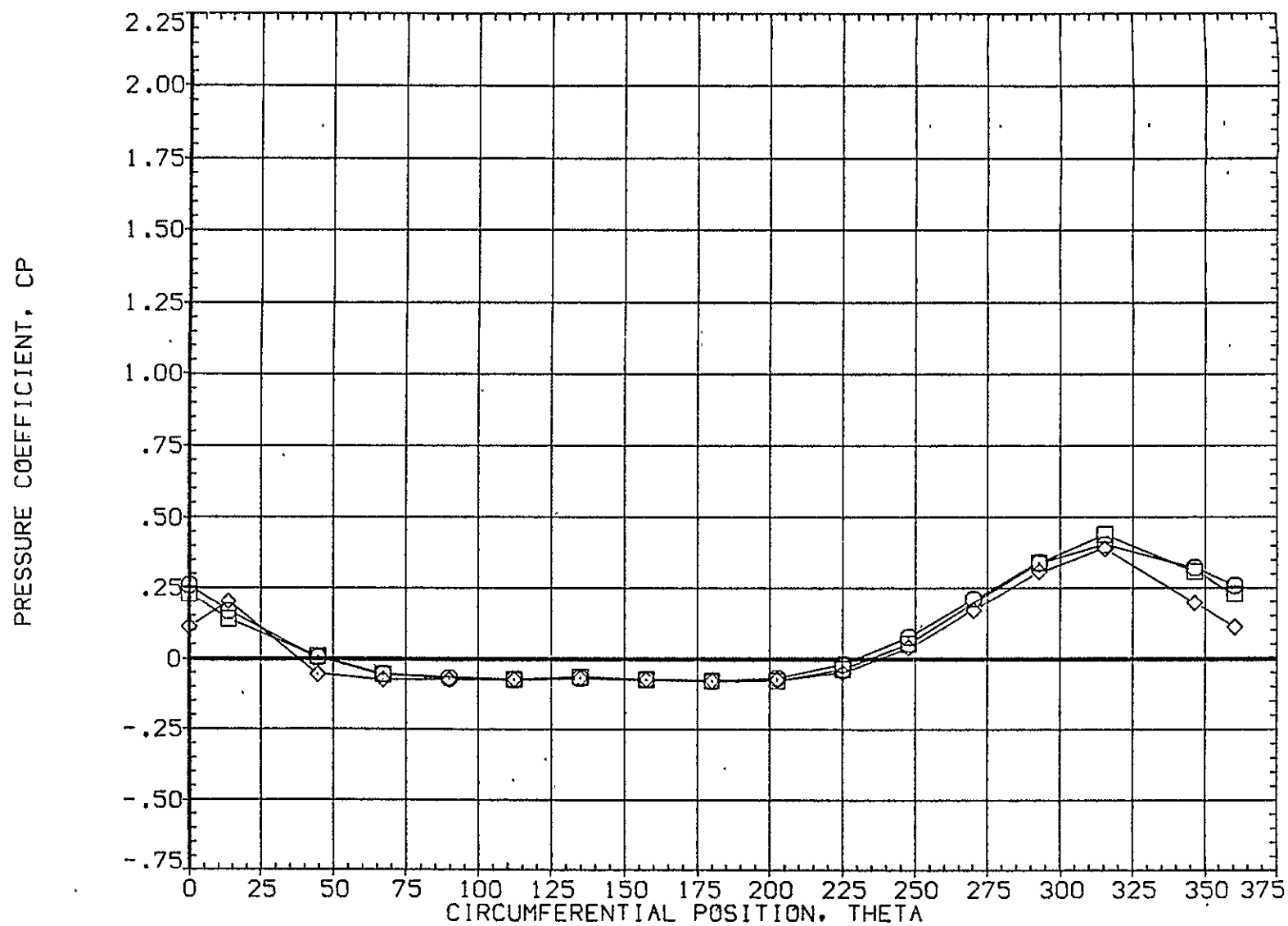


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET = T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	28.700	3.480	MOUNT	.000	PHI	135.000
□	.735				1.000		
◇	.860						

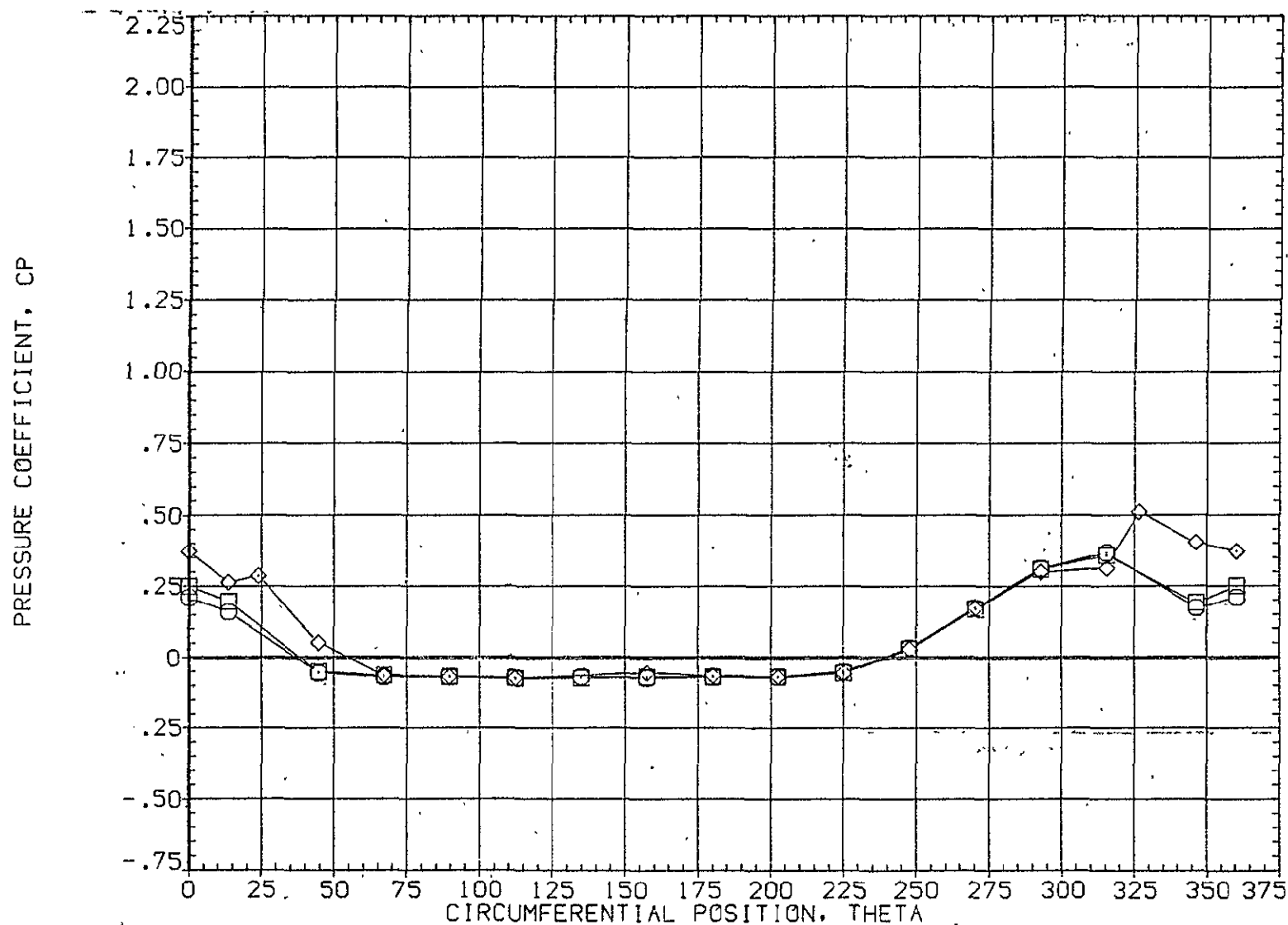


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	28.700	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	135.000

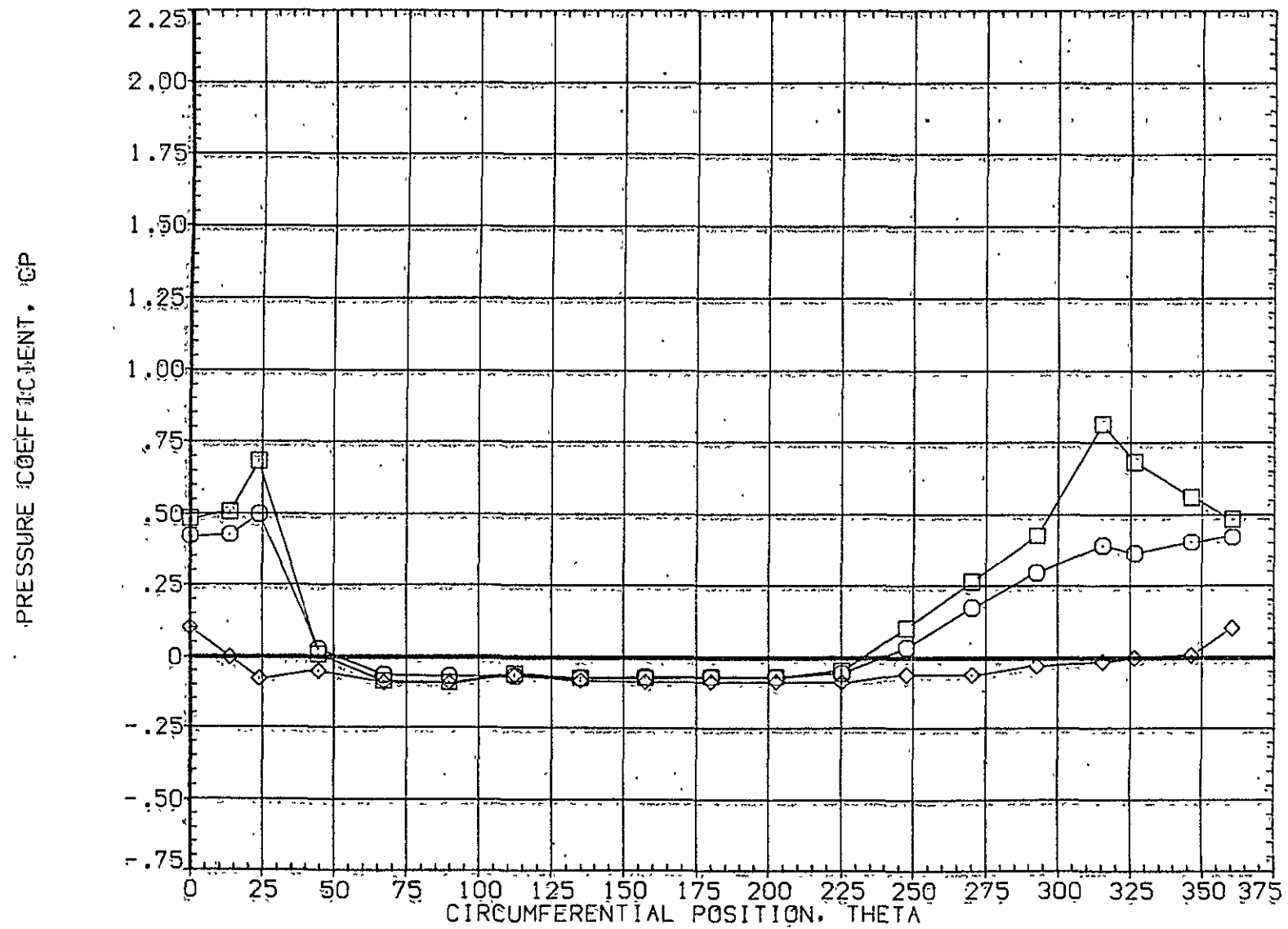


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A031)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	-8.360	3.480	MOUNT	.000	PHI	180.000
□	.108						
◇	.162						

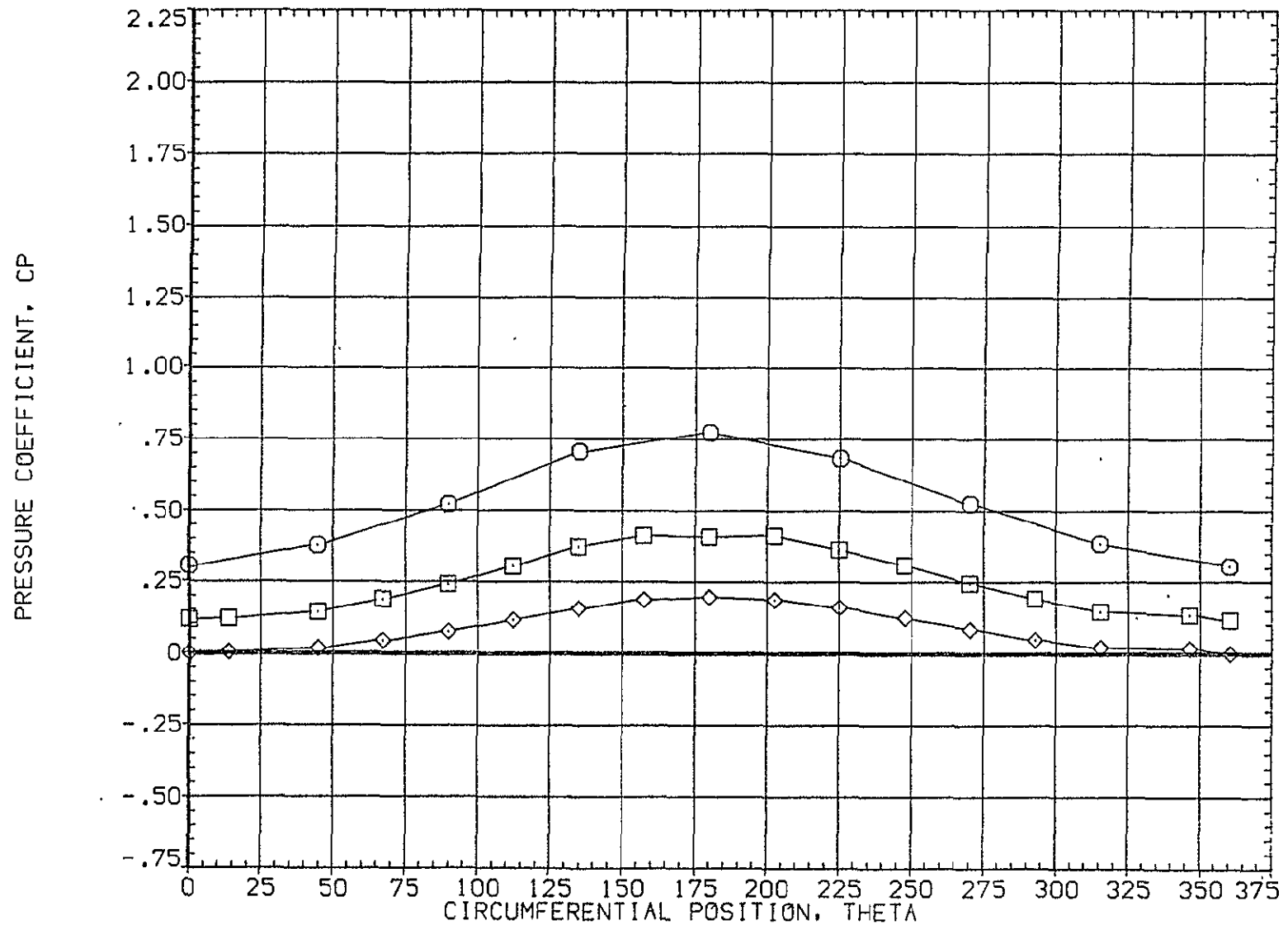


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.216	-8.360	3.480		.000	.000
□	.322				1.000	
◇	.518					180.000

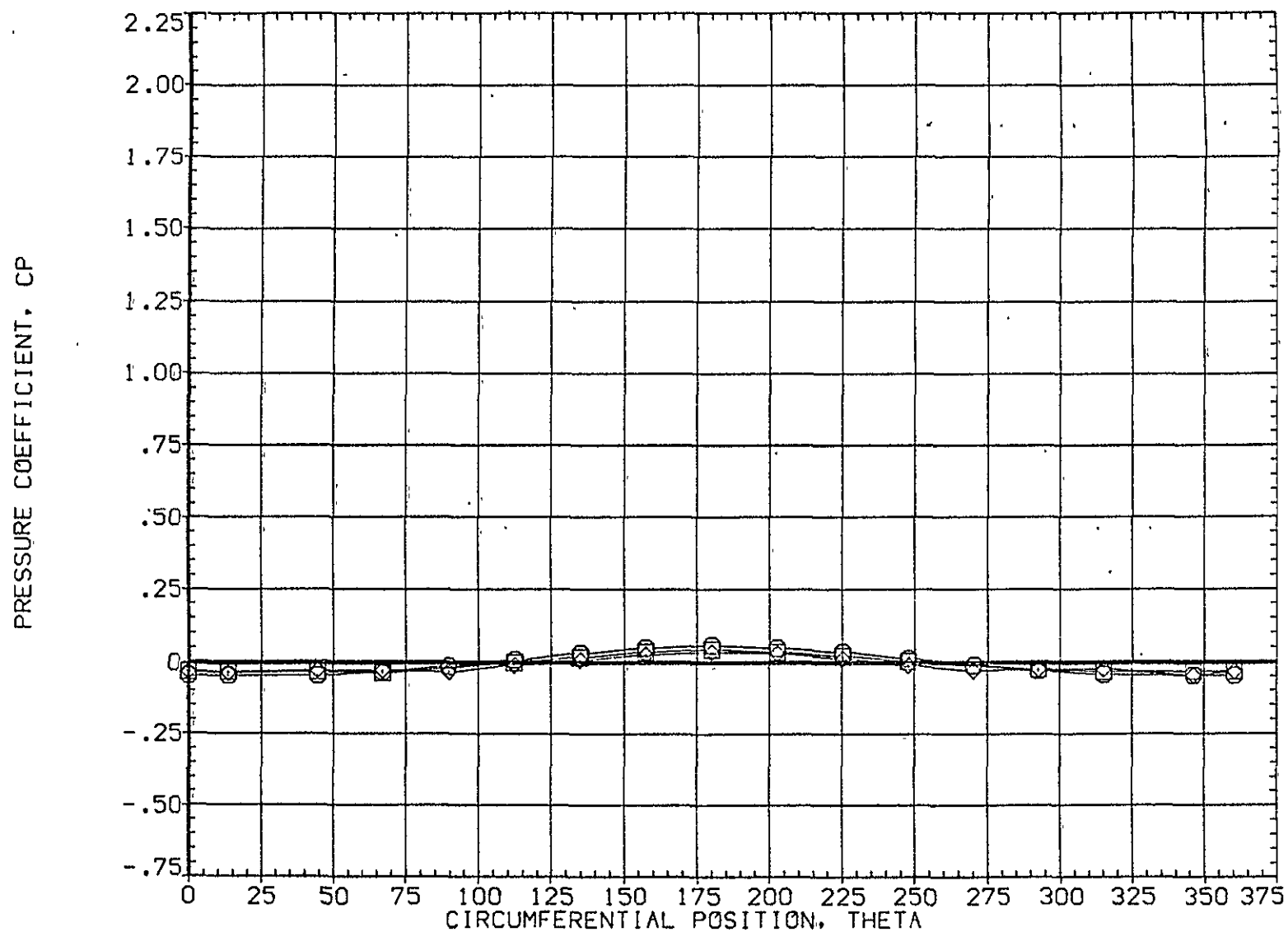


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A031)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-8.360	3.480	.000		.000	
□	.735			1.000	PHI	180.000	
◇	.860						

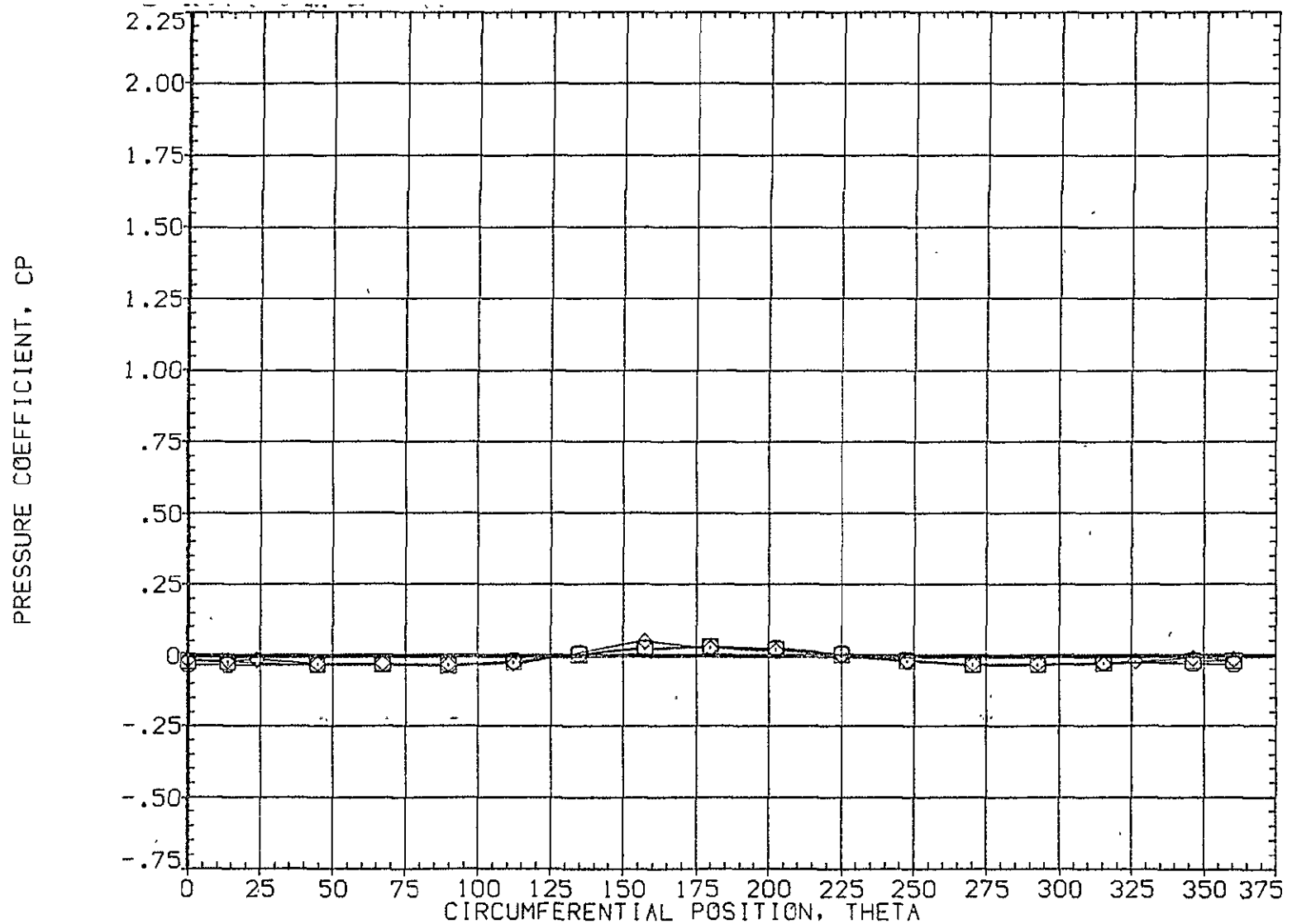


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	-8.360	3.480	.000		.000	
□	.923			1.000	PHI	180.000	
◇	.954						

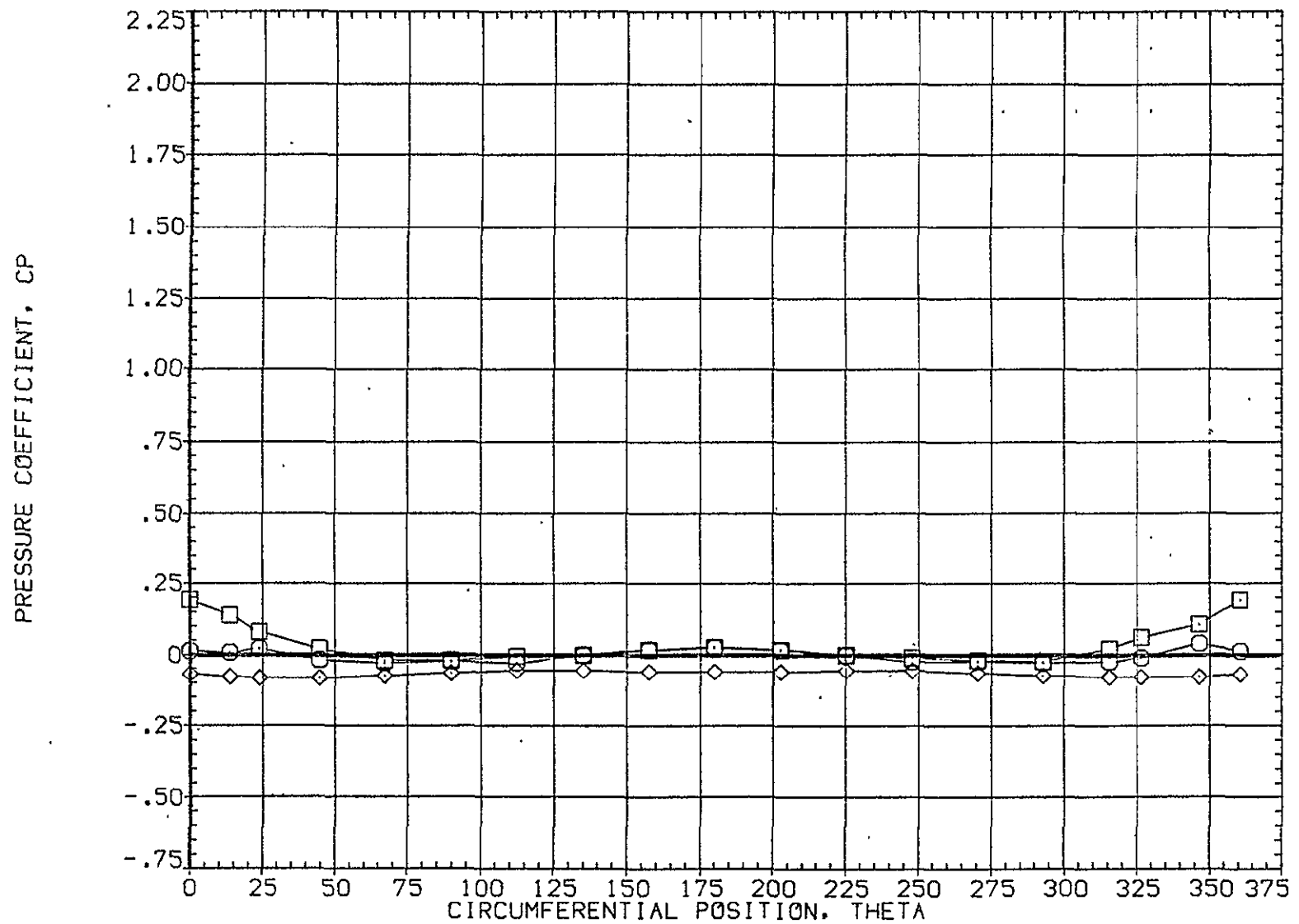


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

○
□
◇.055
.108
.162

-4.330

3.480

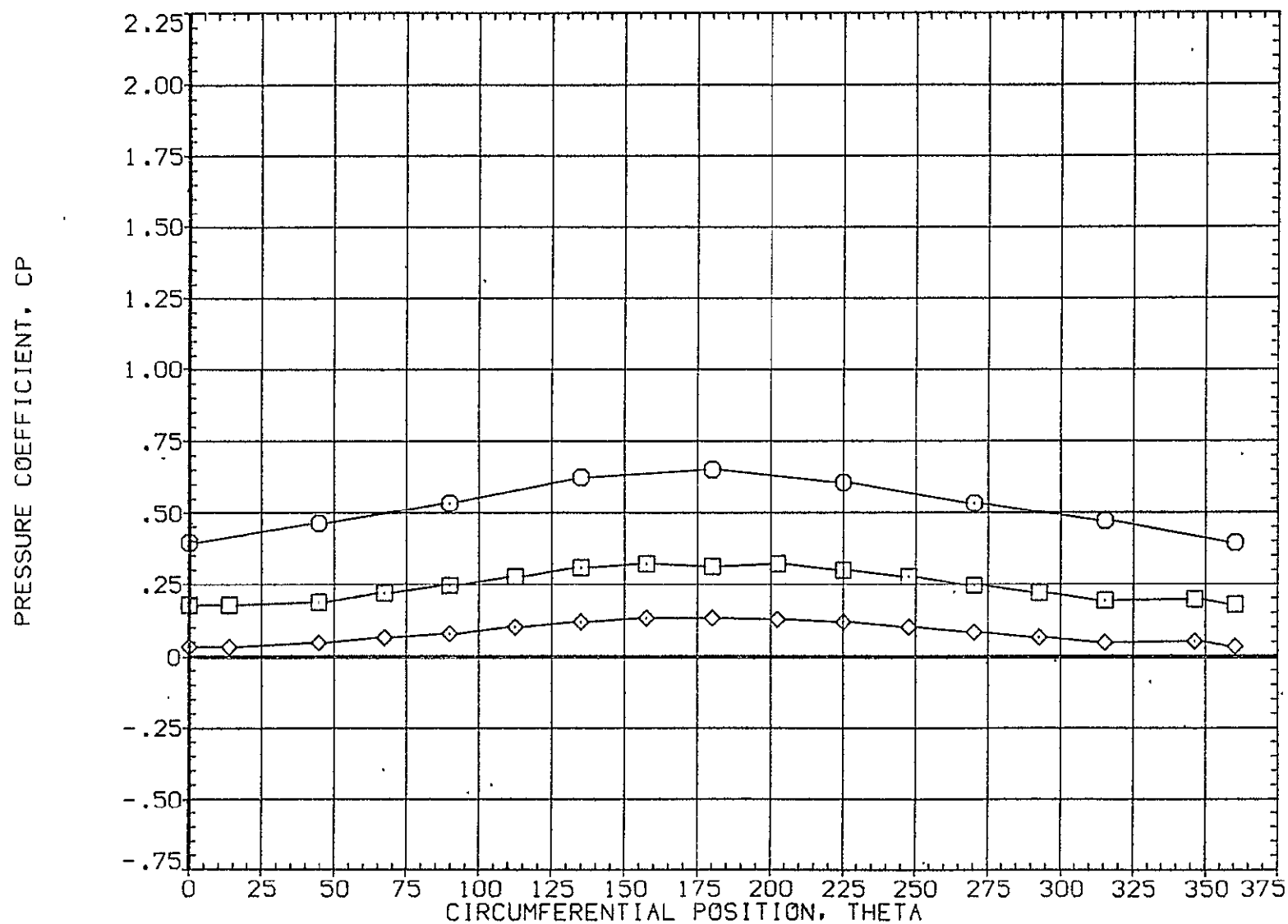
BETA
MOUNT.000
1.000OFFSET
PHI.000
180.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-4.330	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET .000
MOUNT	1.000	PHI 180.000

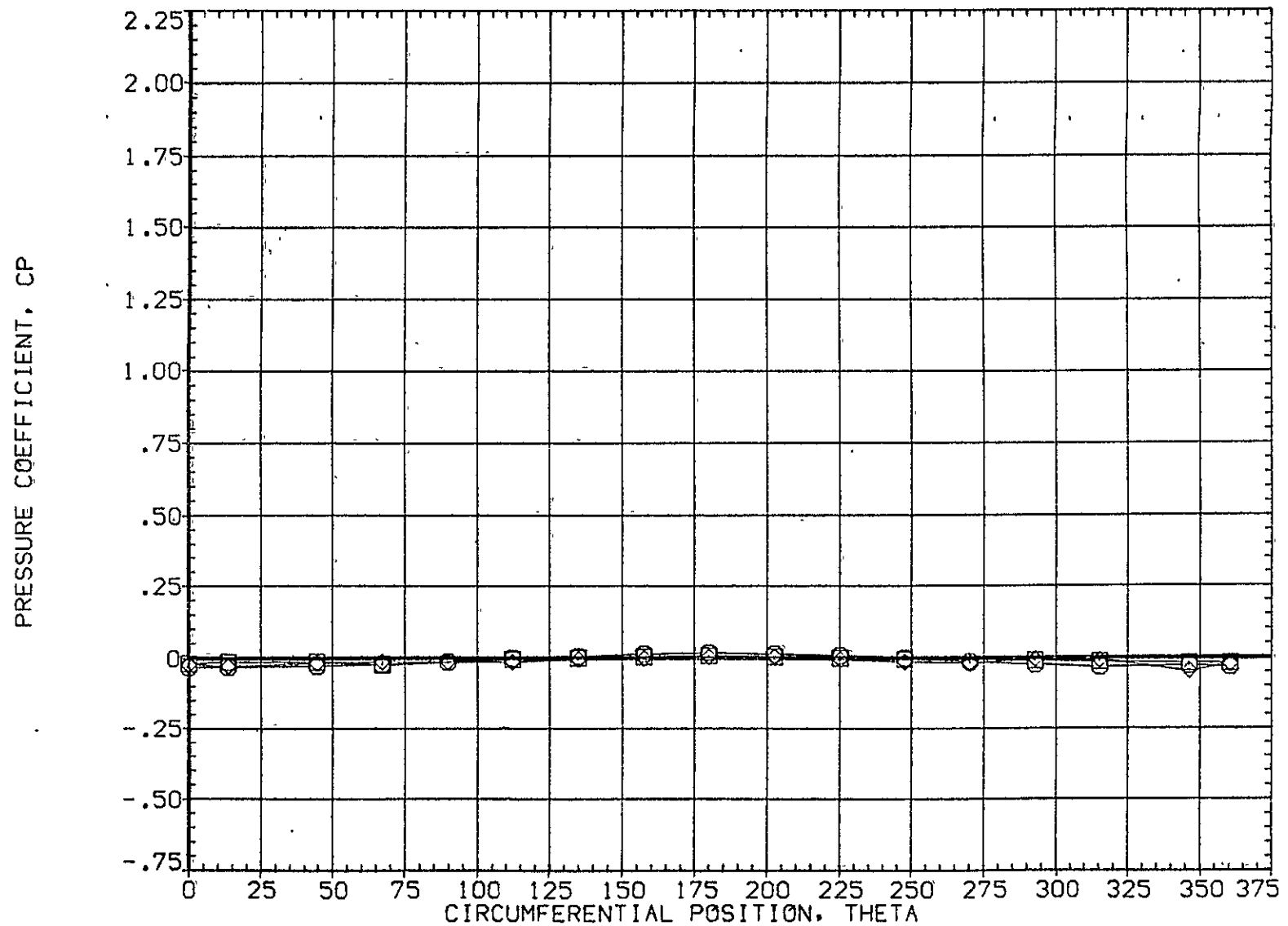


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A032)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-4.330	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	180.000
◇	.860						

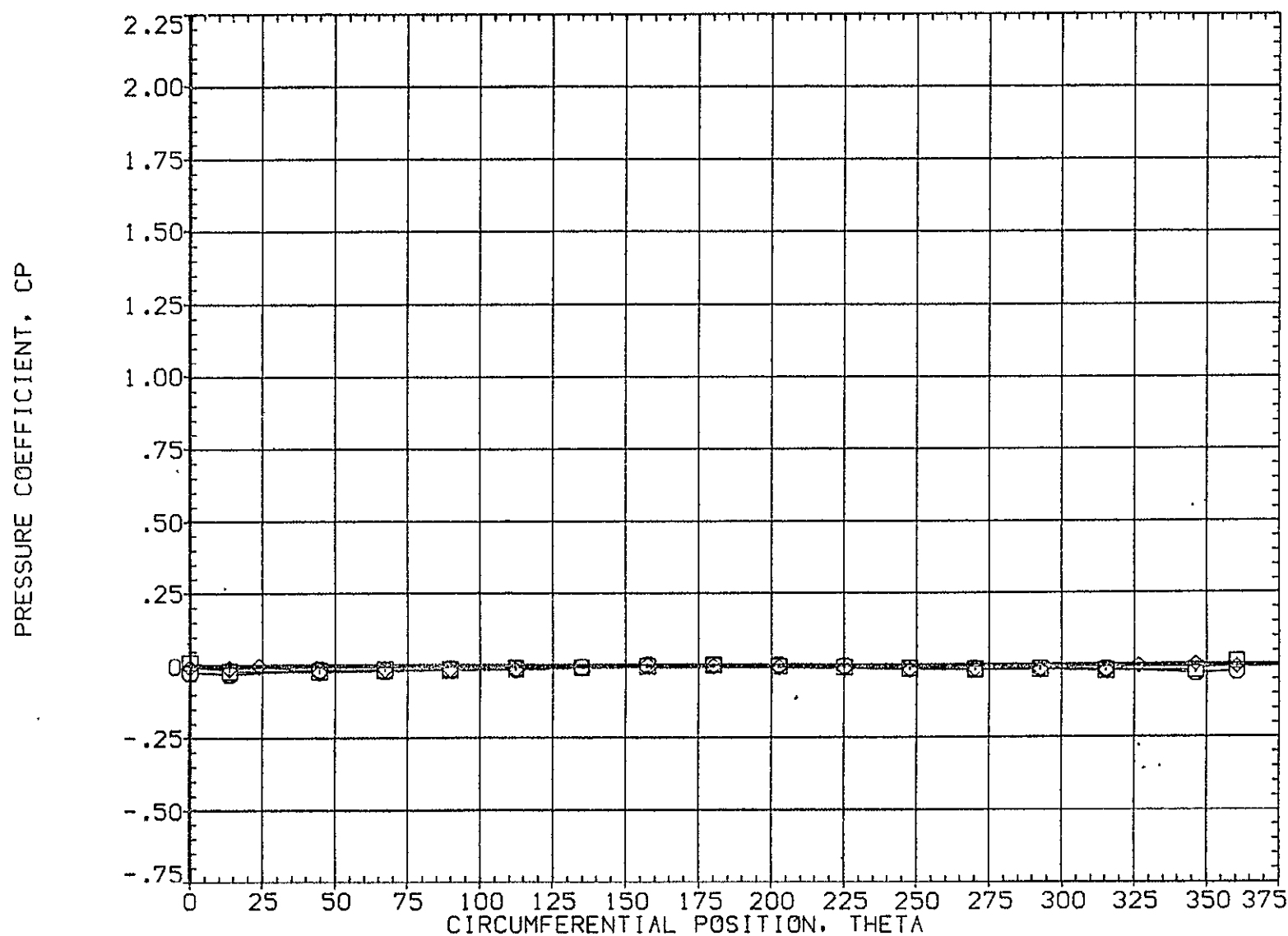


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-4.330	3.480	.000		.000
□	.923			1.000	PHI	180.000
◇	.954					

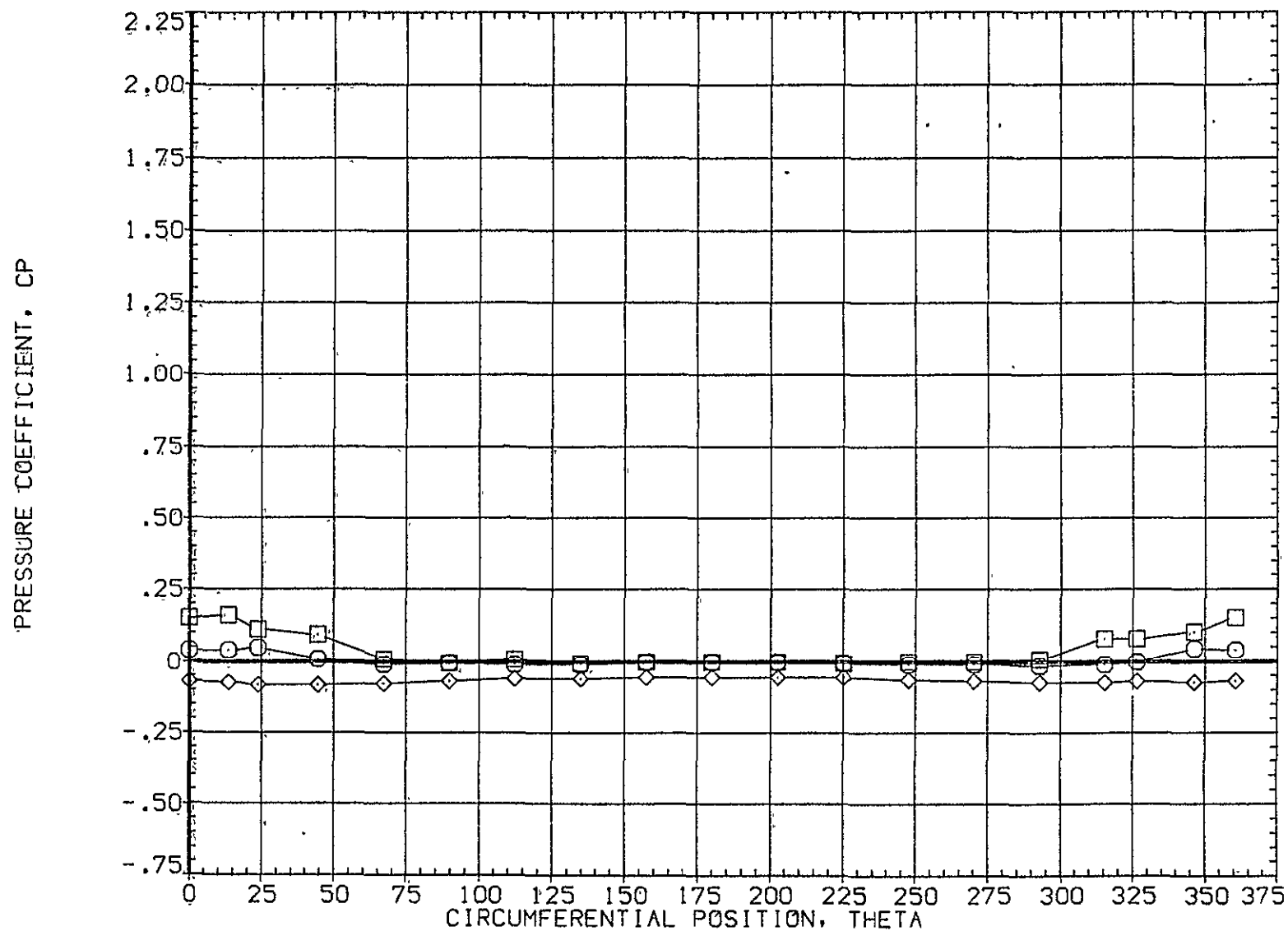


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A033)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-.280	3.480	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	180.000
◇	.162						

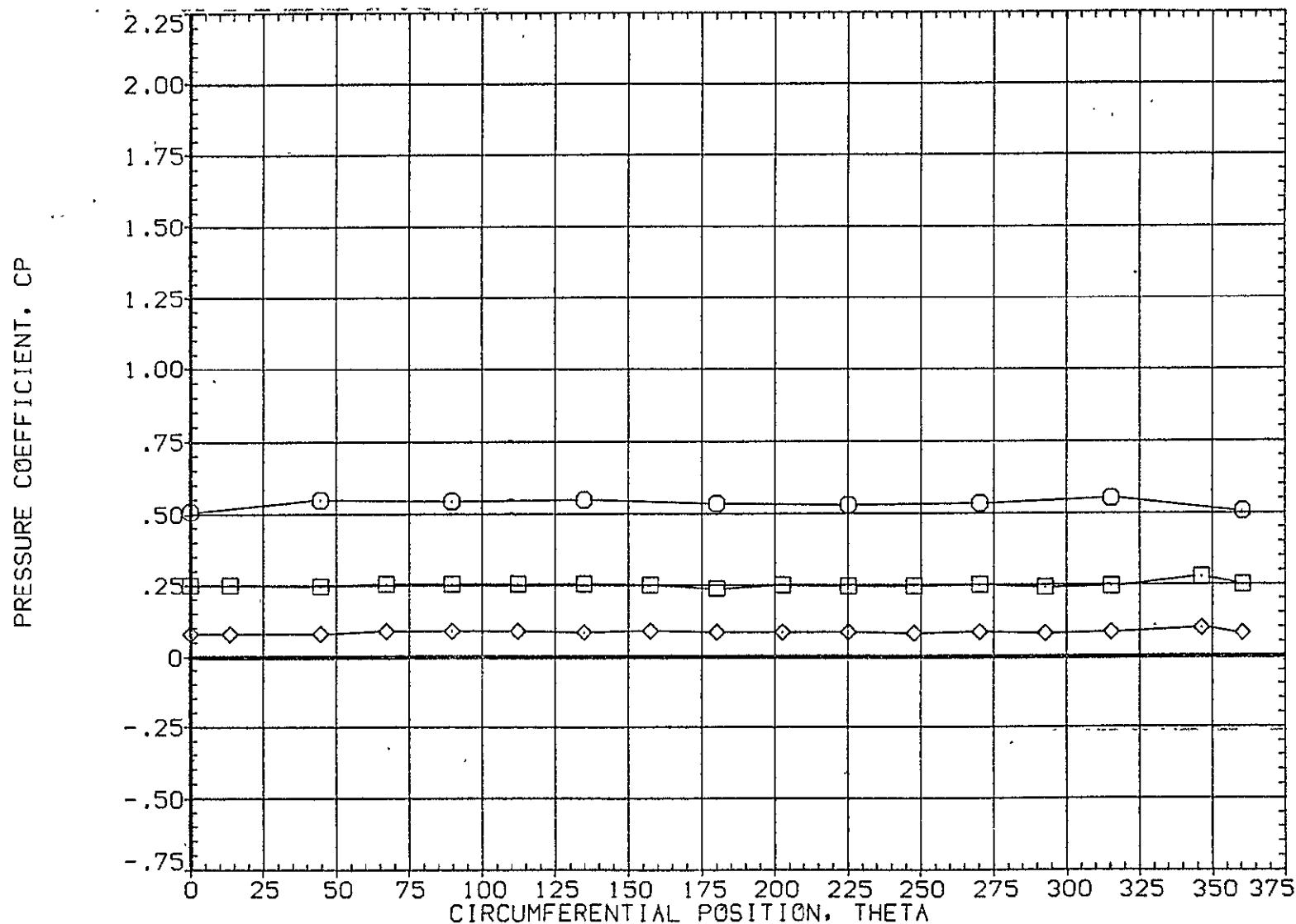


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.216	-.280	3.480	.000		.000	
□	.322			1.000	PHI	180.000	
◇	.518						

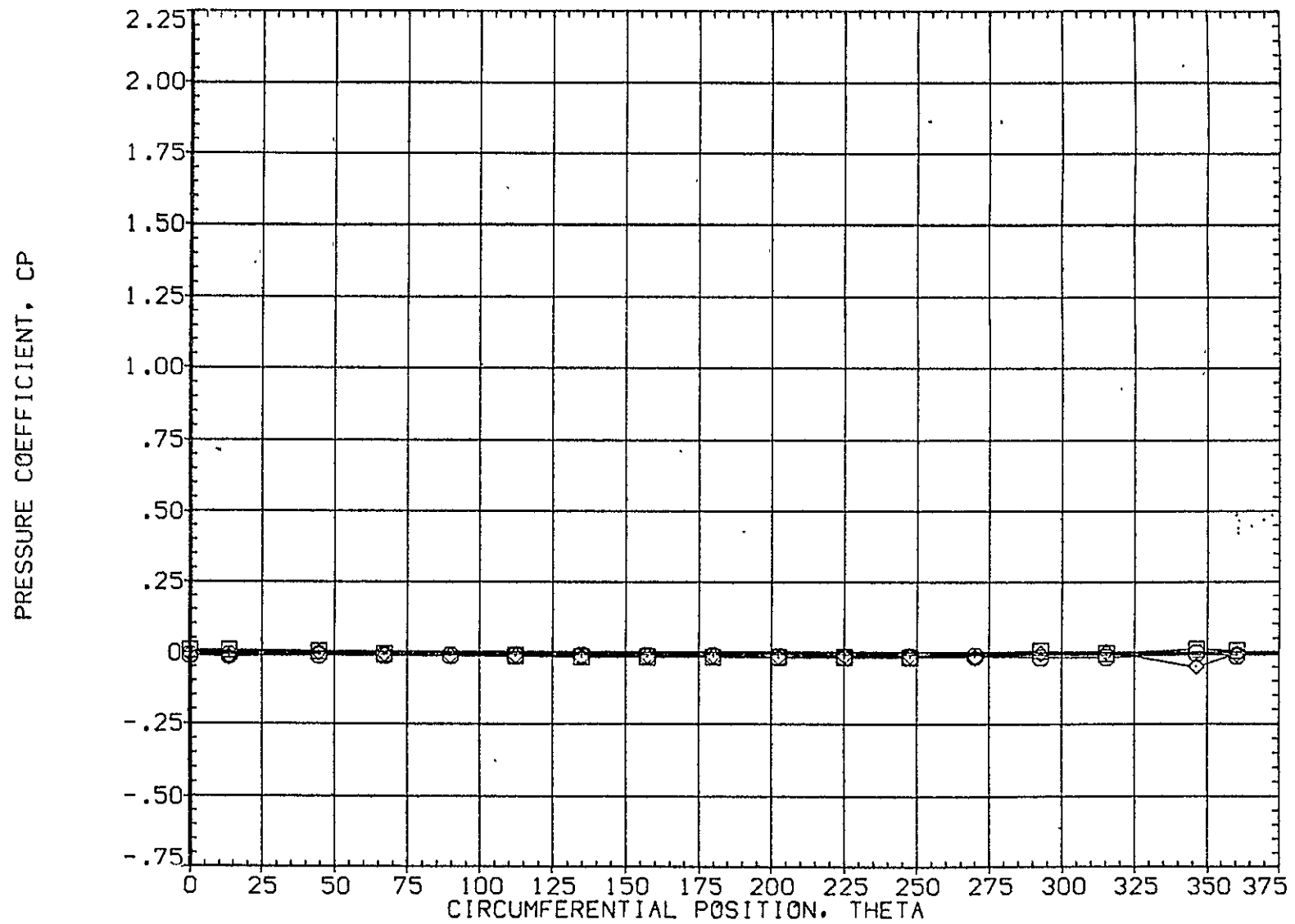


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A033)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-.280	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	180.000
◇	.860						

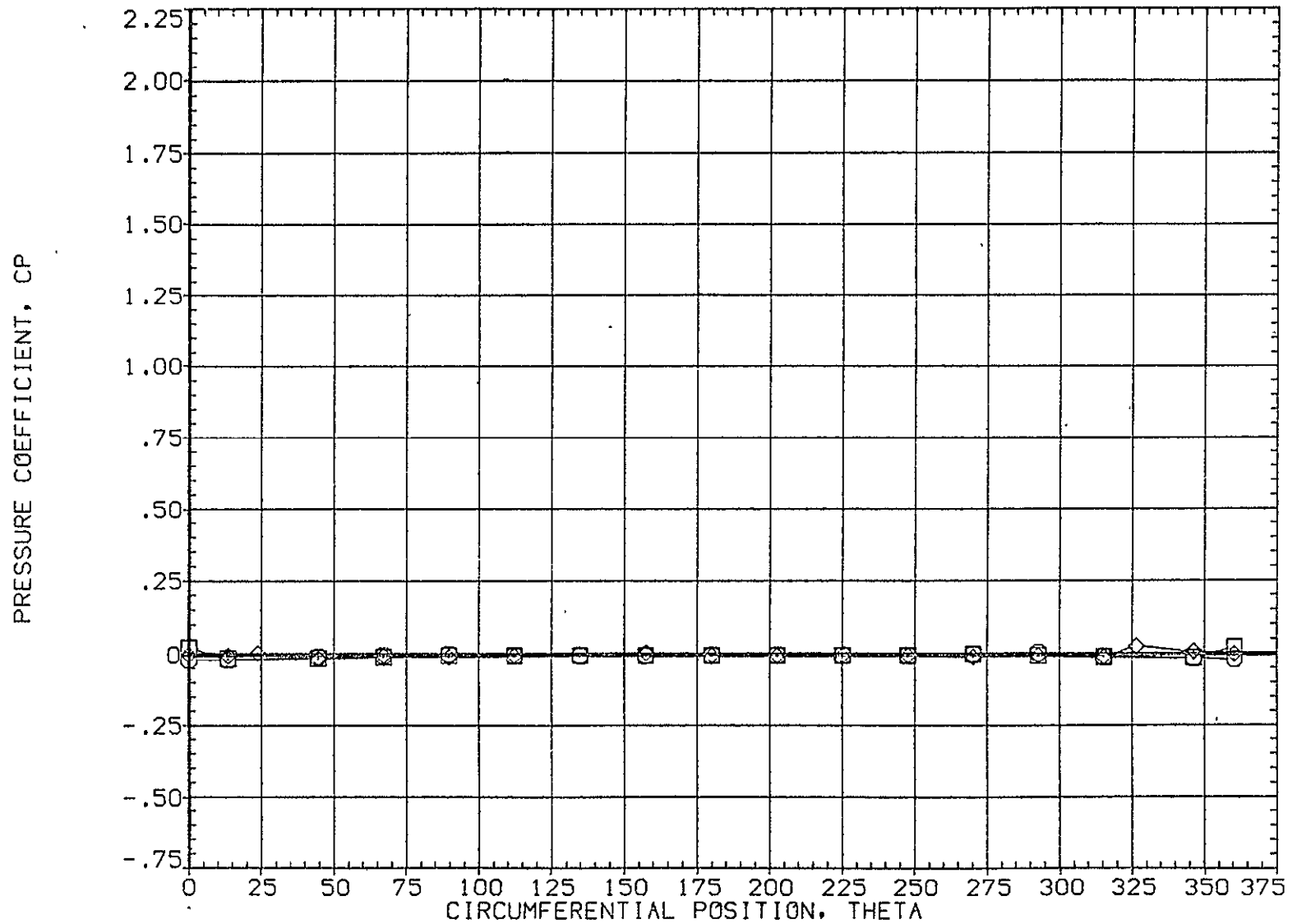


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	-.280	3.480	.000		.000	
□	.923			1.000	PHI	180.000	
◇	.954						

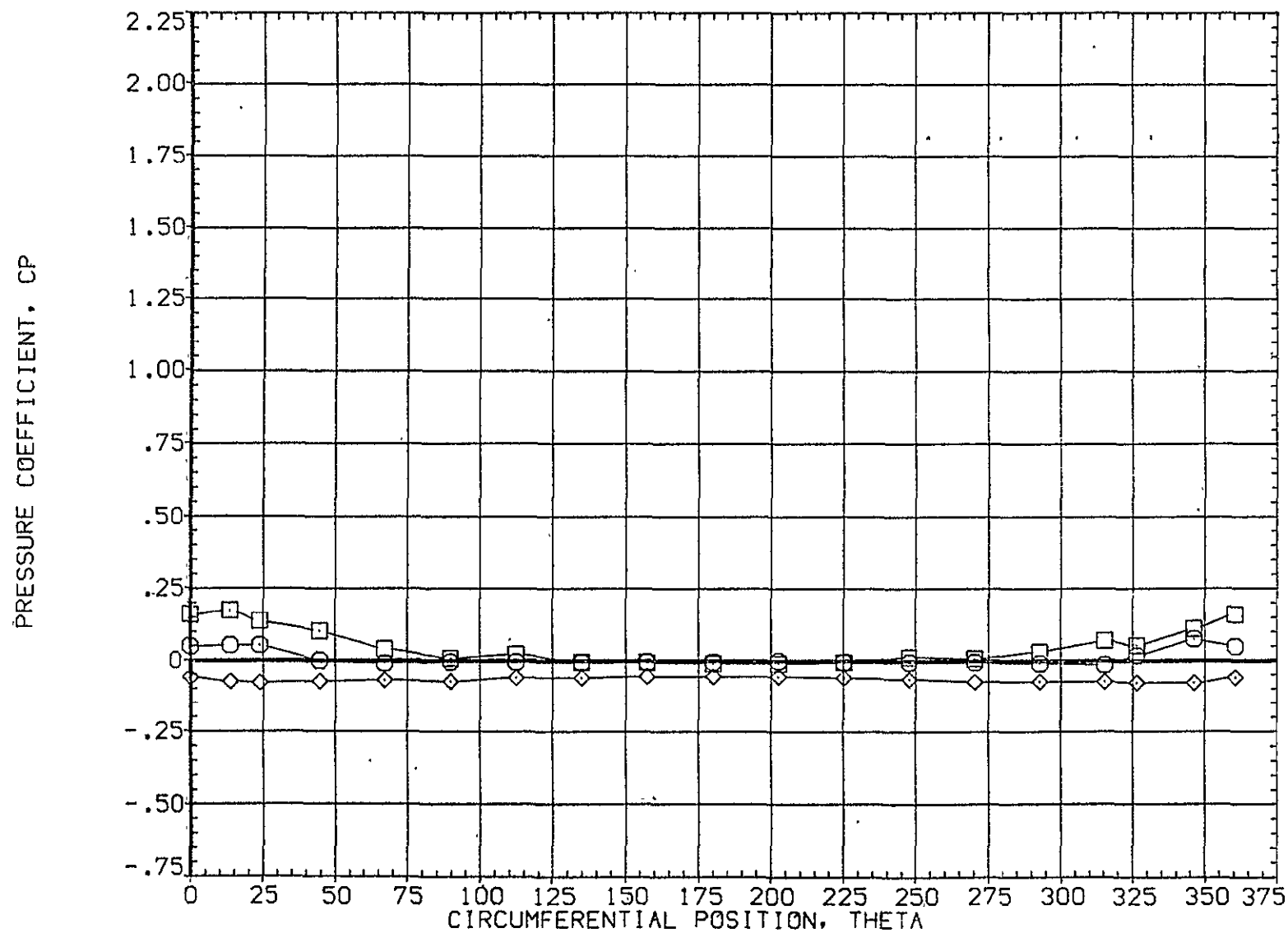


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A034)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.055	3.770	3.480	BETA	.000	OFFSET
□	.108			MOUNT	1.000	PHI
◇	.162					.000
						180.000

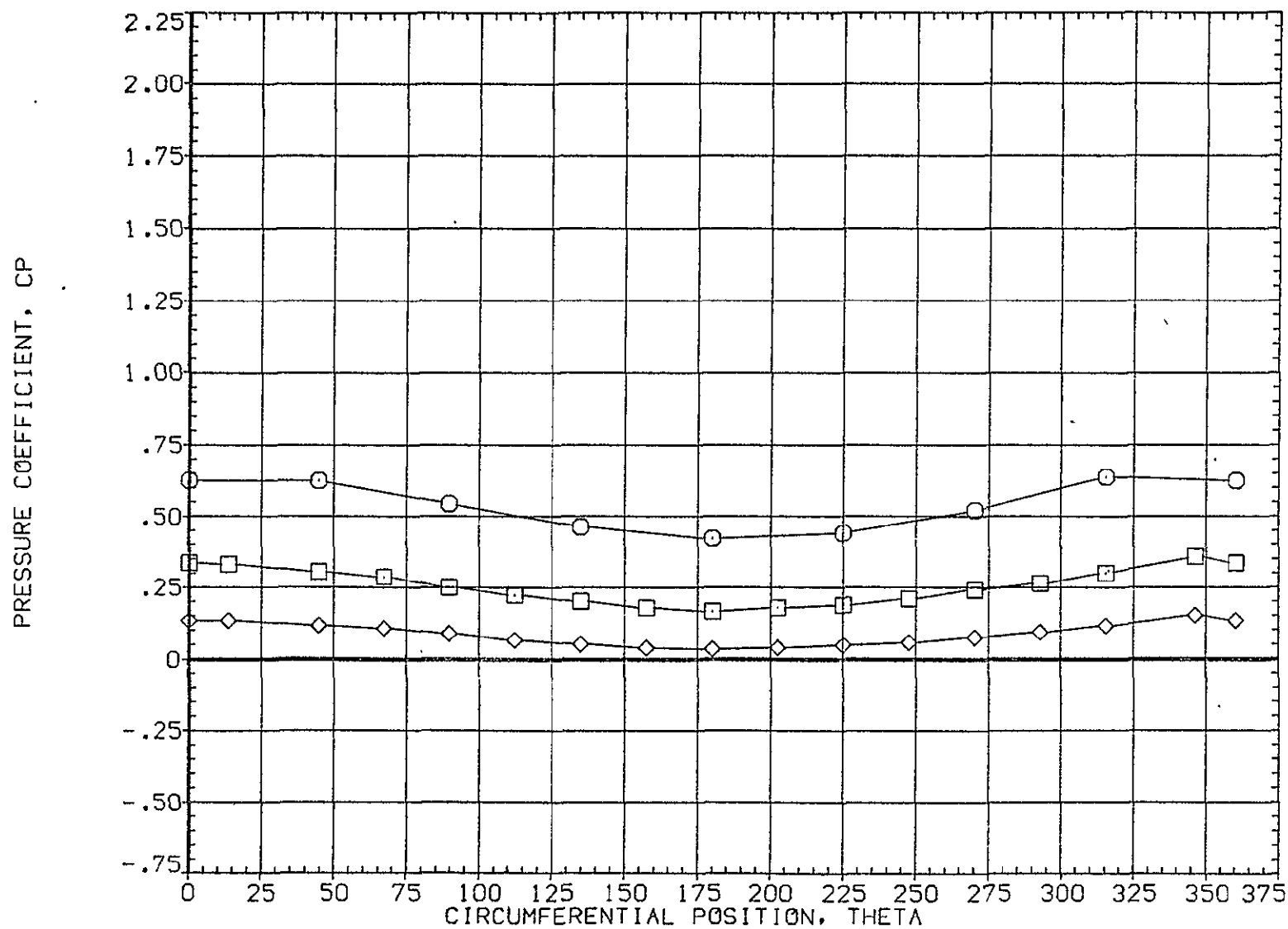


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

C-5

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.216	3.770	3.480	MOUNT	.000	1.000	.000
□	.322						
◇	.518						180.000

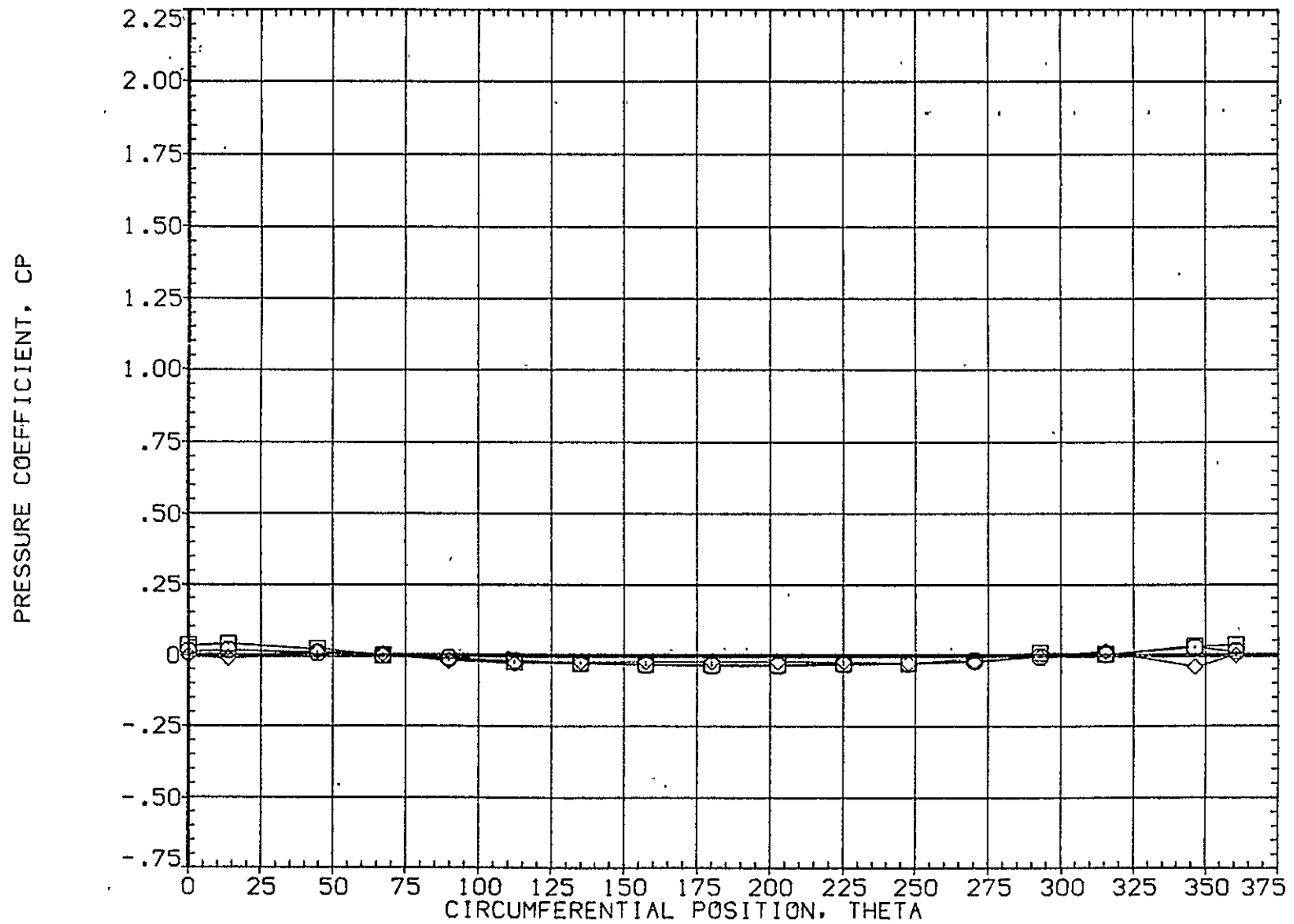


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A034)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.610	3.770	3.480	BETA	.000	OFFSET
□	.735			MOUNT	1.000	PHI
◇	.860					180.000

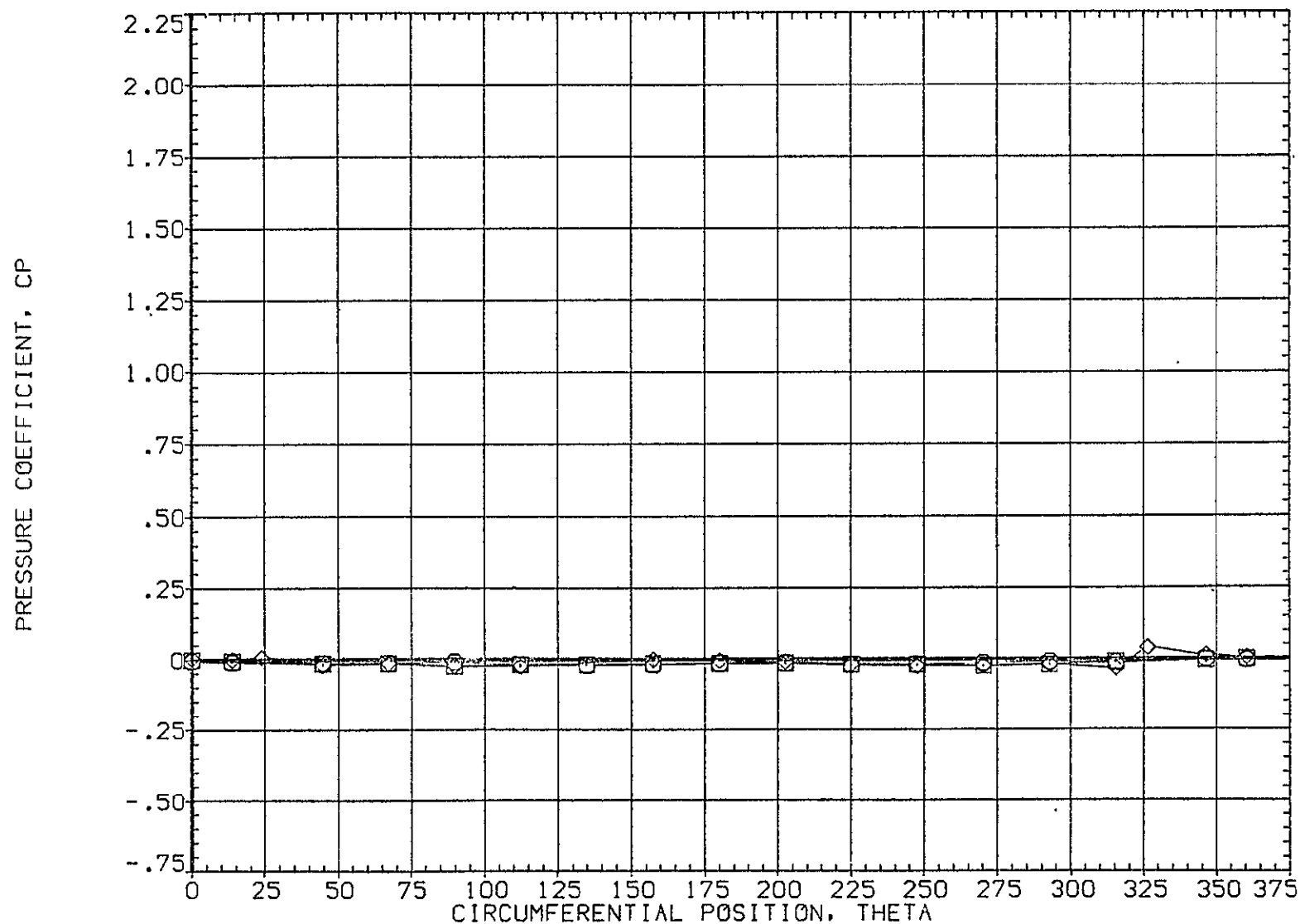


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	3.770	3.480	1.000	.000	180.000	
□	.923						
◇	.954						

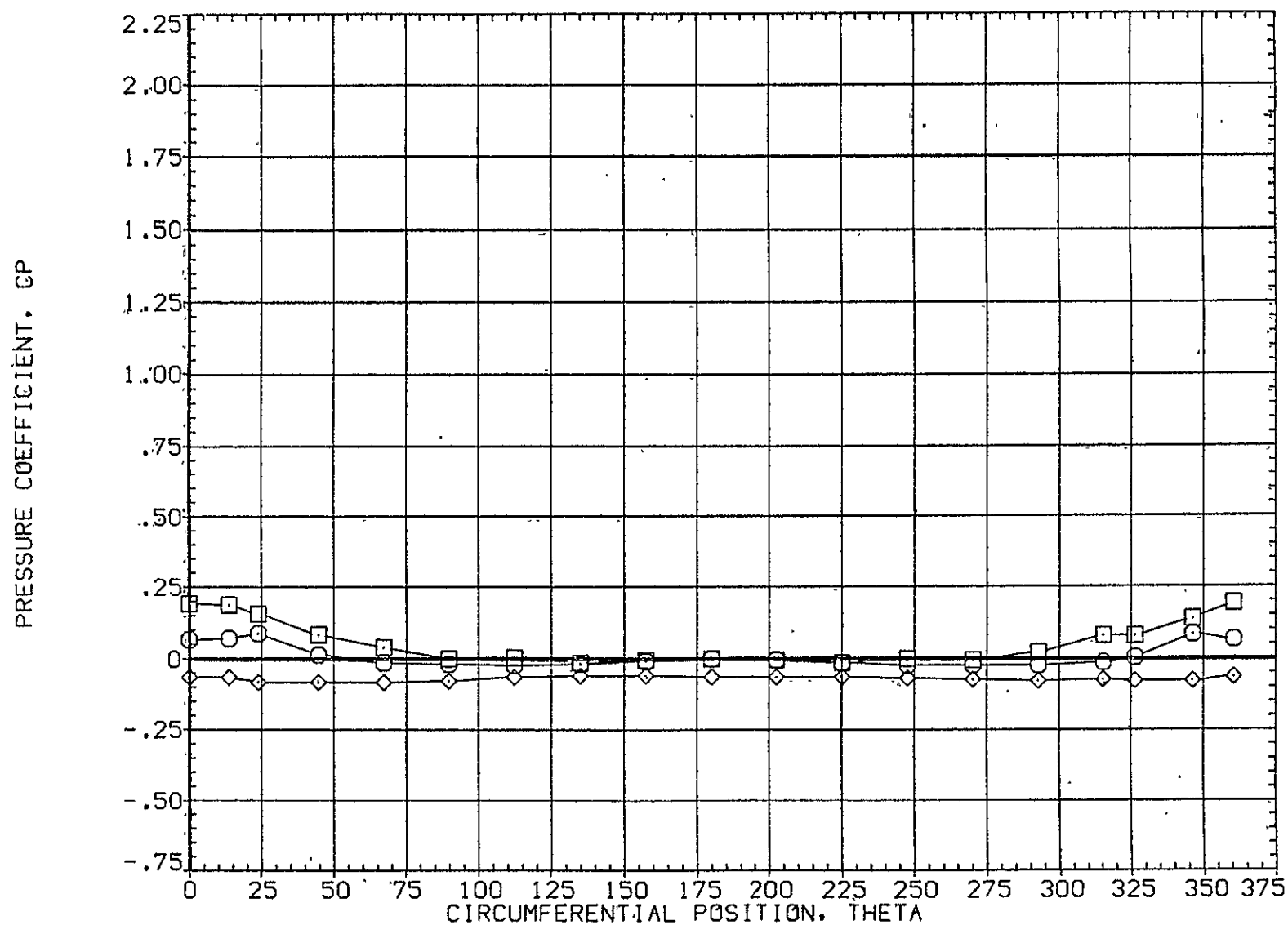


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	7.800	3.480	1.000	PHI	180.000	
□	.108						
◇	.162						

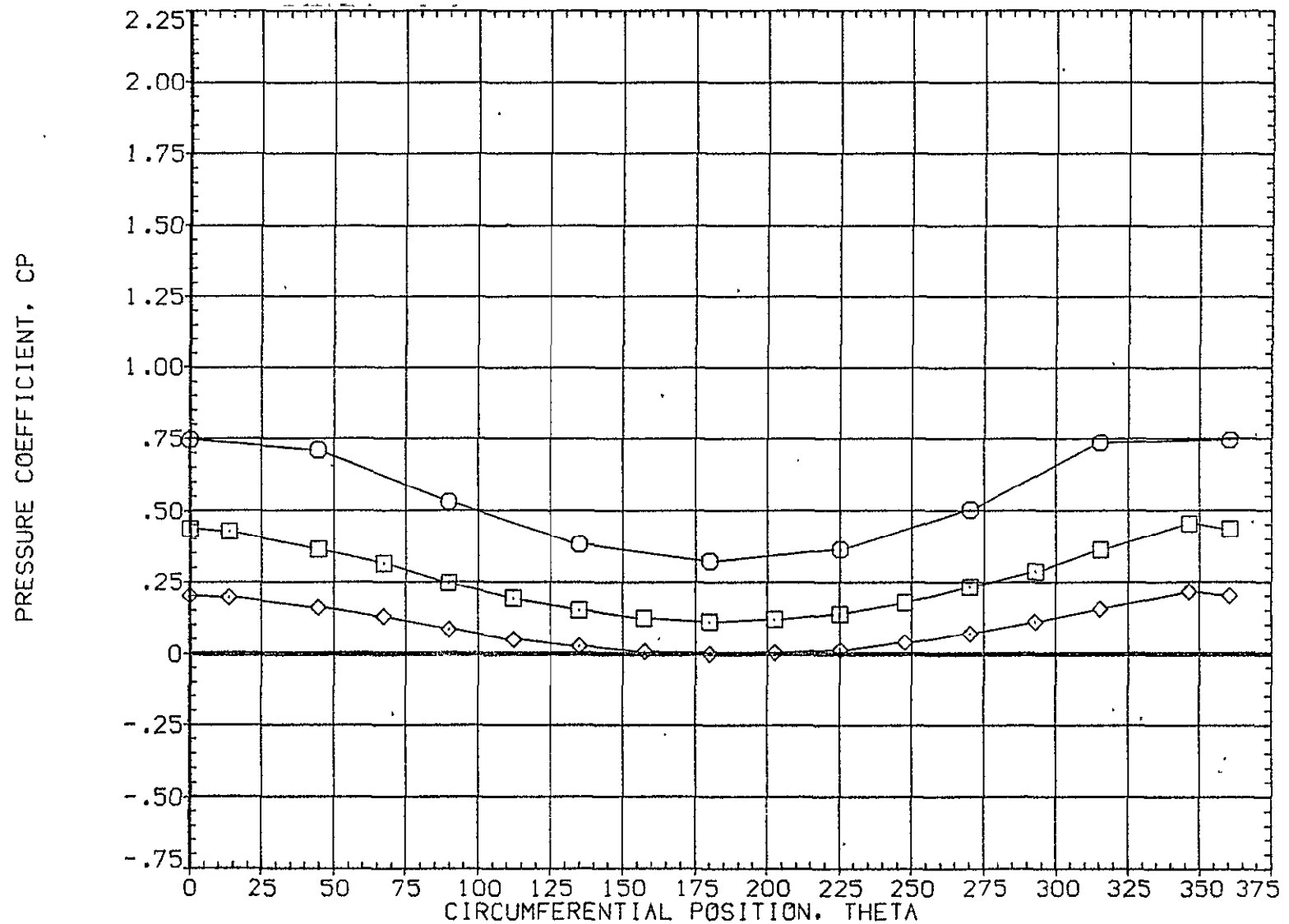


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	7.800	3.480	MOUNT	.000	.000
□	.322				1.000	PHI 180.000
◇	.518					

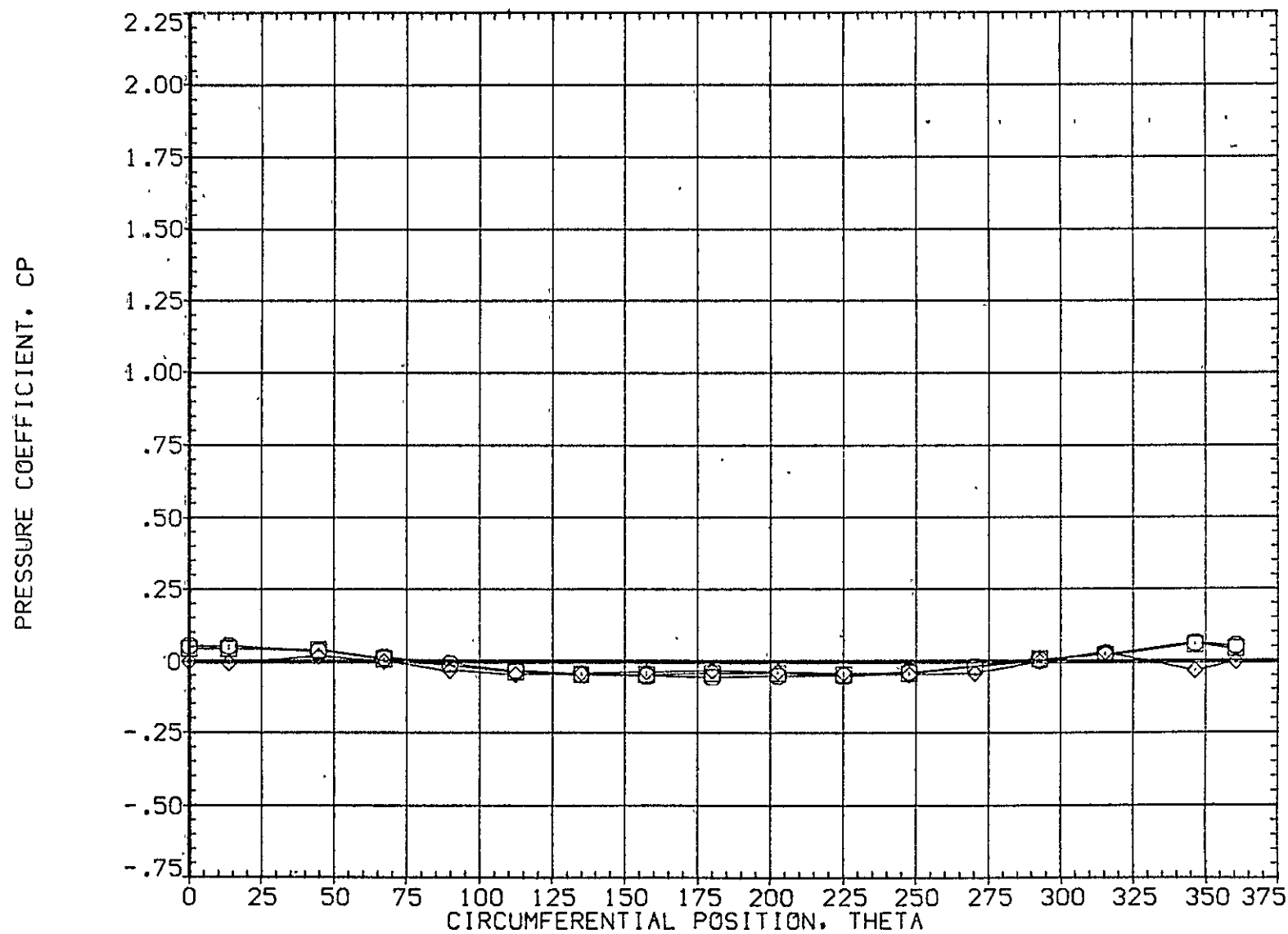


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A035)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	7.800	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	180.000
◇	.860						

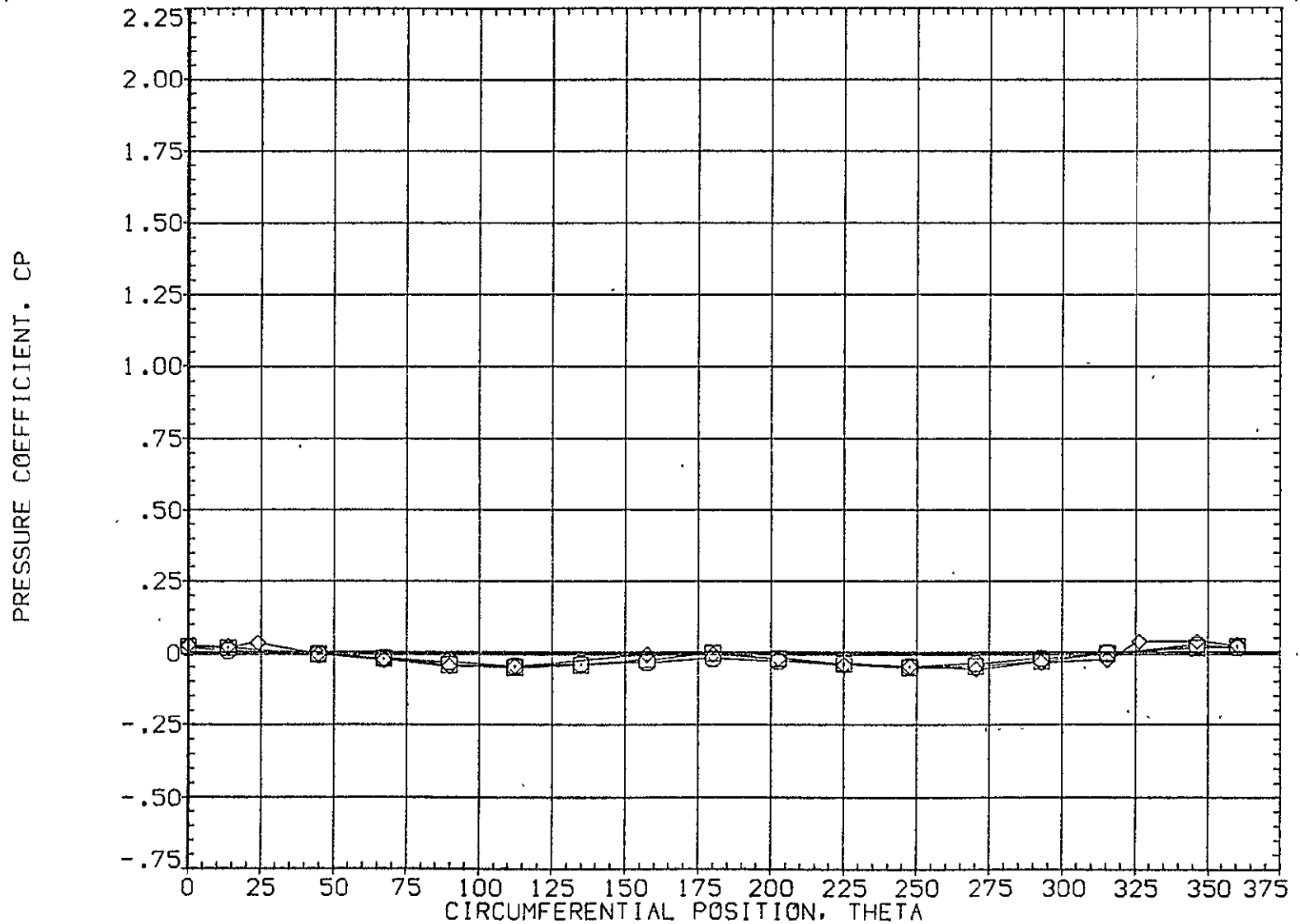


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.892	7.800	3.480		.000	.000
□	.923				1.000	180.000
◇	.954					

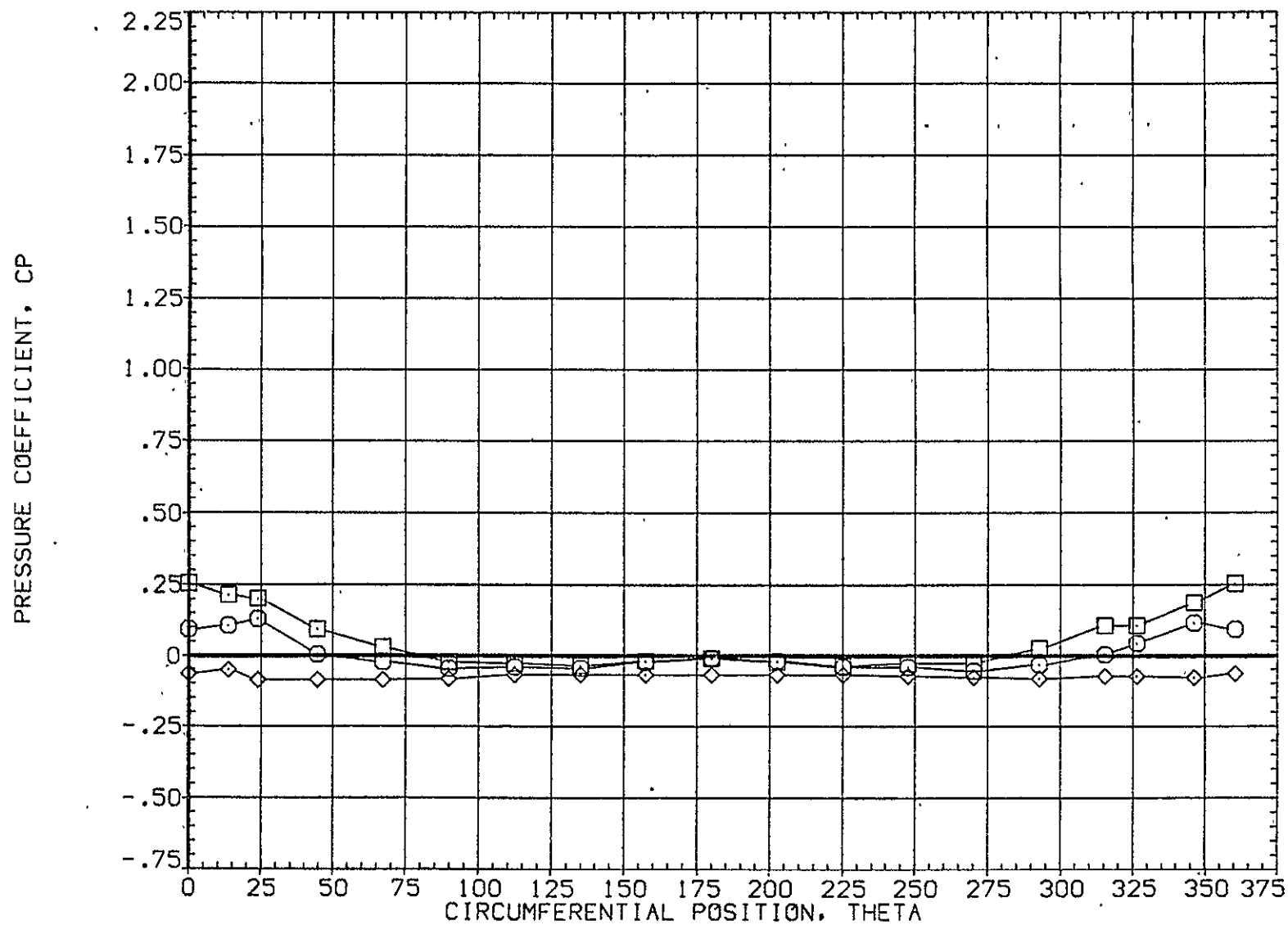


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A036)

SYMBOL	%X/LB	ALPHA	MACH
○	.055	12.540	3.480
□	.108		
◇	.162		

PARAMETRIC VALUES		
BETA	OFFSET	
ANGLE	PHI	
.000	20.000	
1.000	180.000	

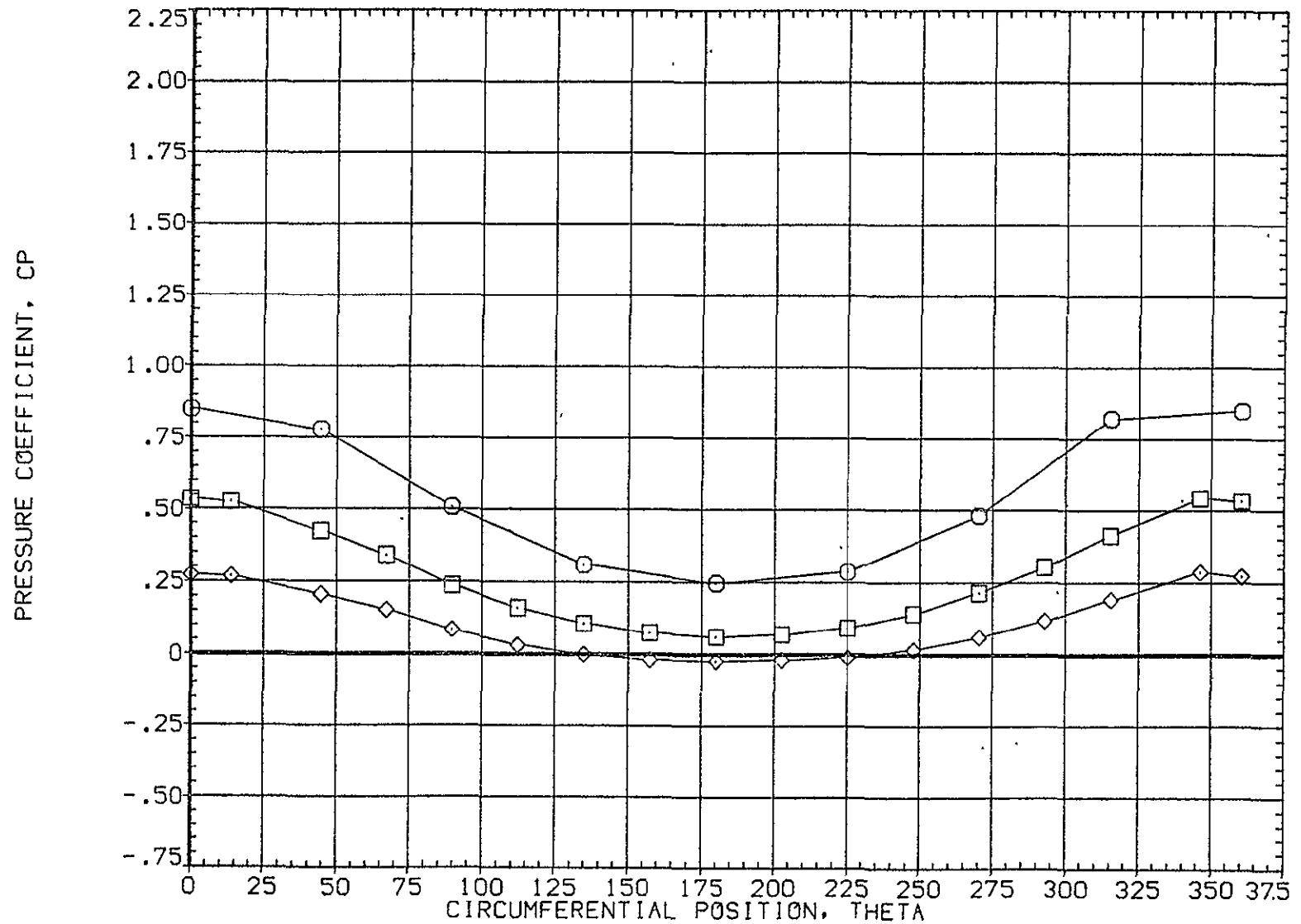


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	12.540	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

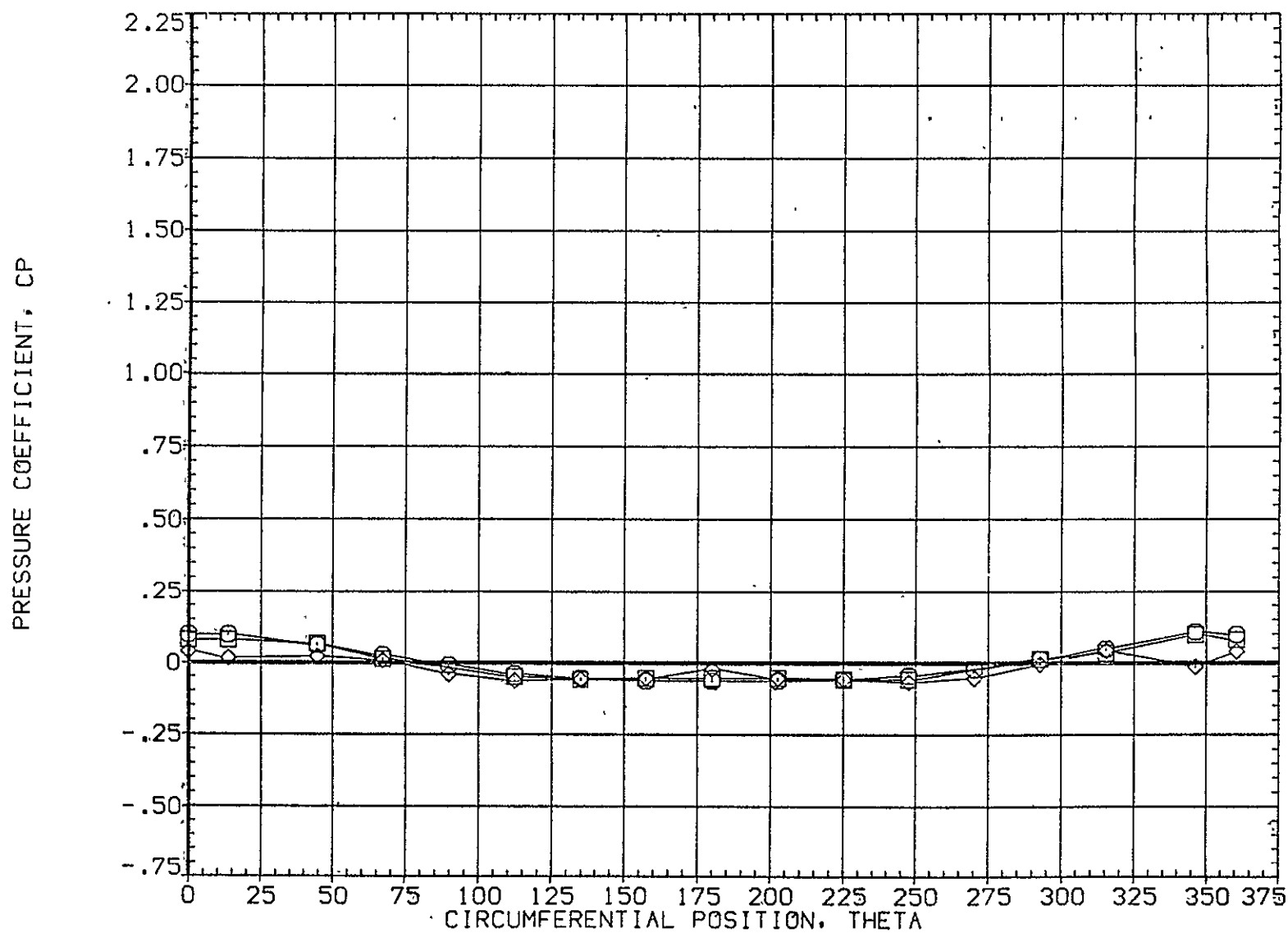


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A036)

SYMBOL	X/LB	ALPHA	MACH
○	.610	12.540	3.480
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

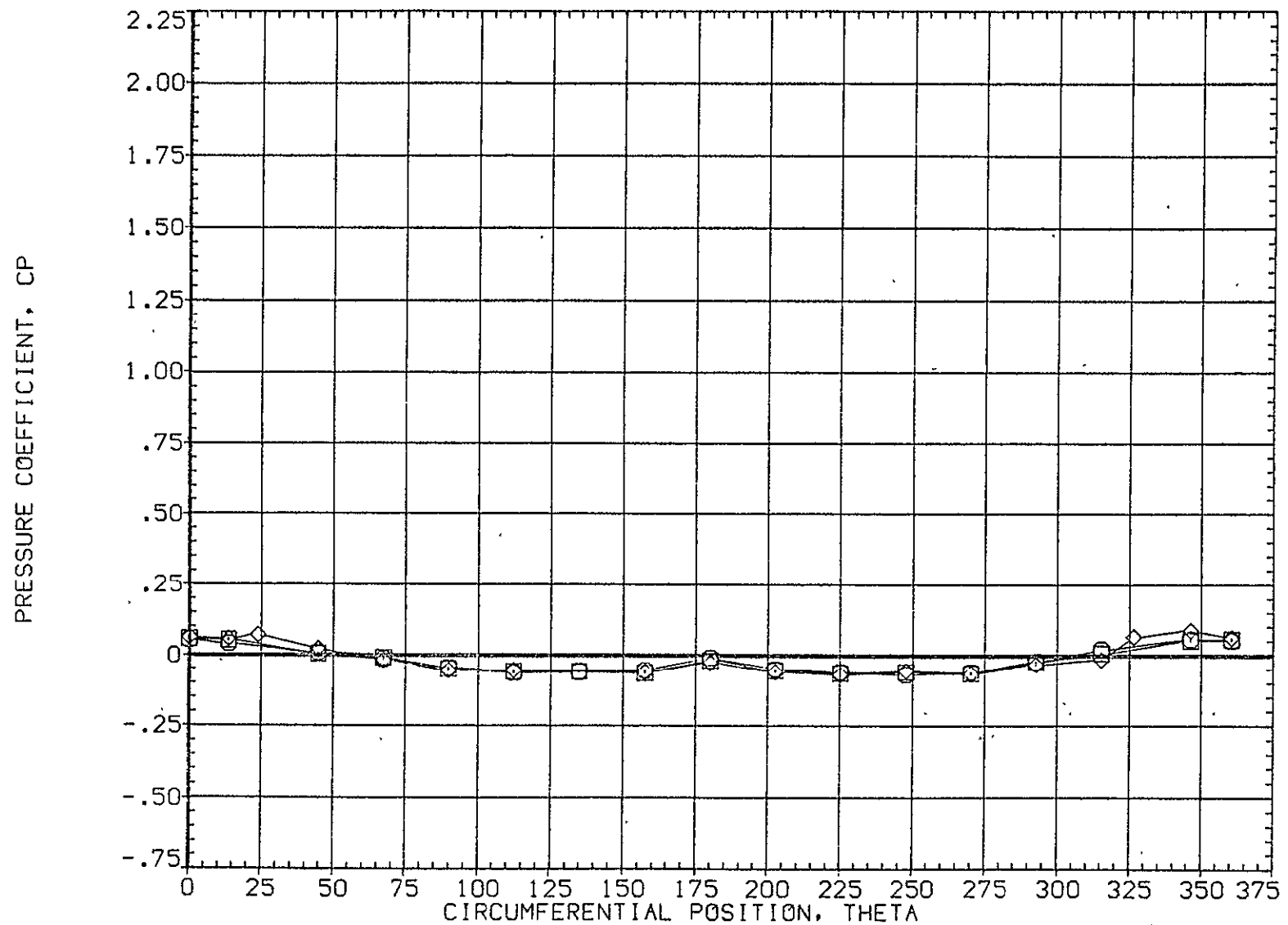


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	12.540	3.480	.000	20.000	
□	.923			1.000	PHI	180.000
◇	.954					

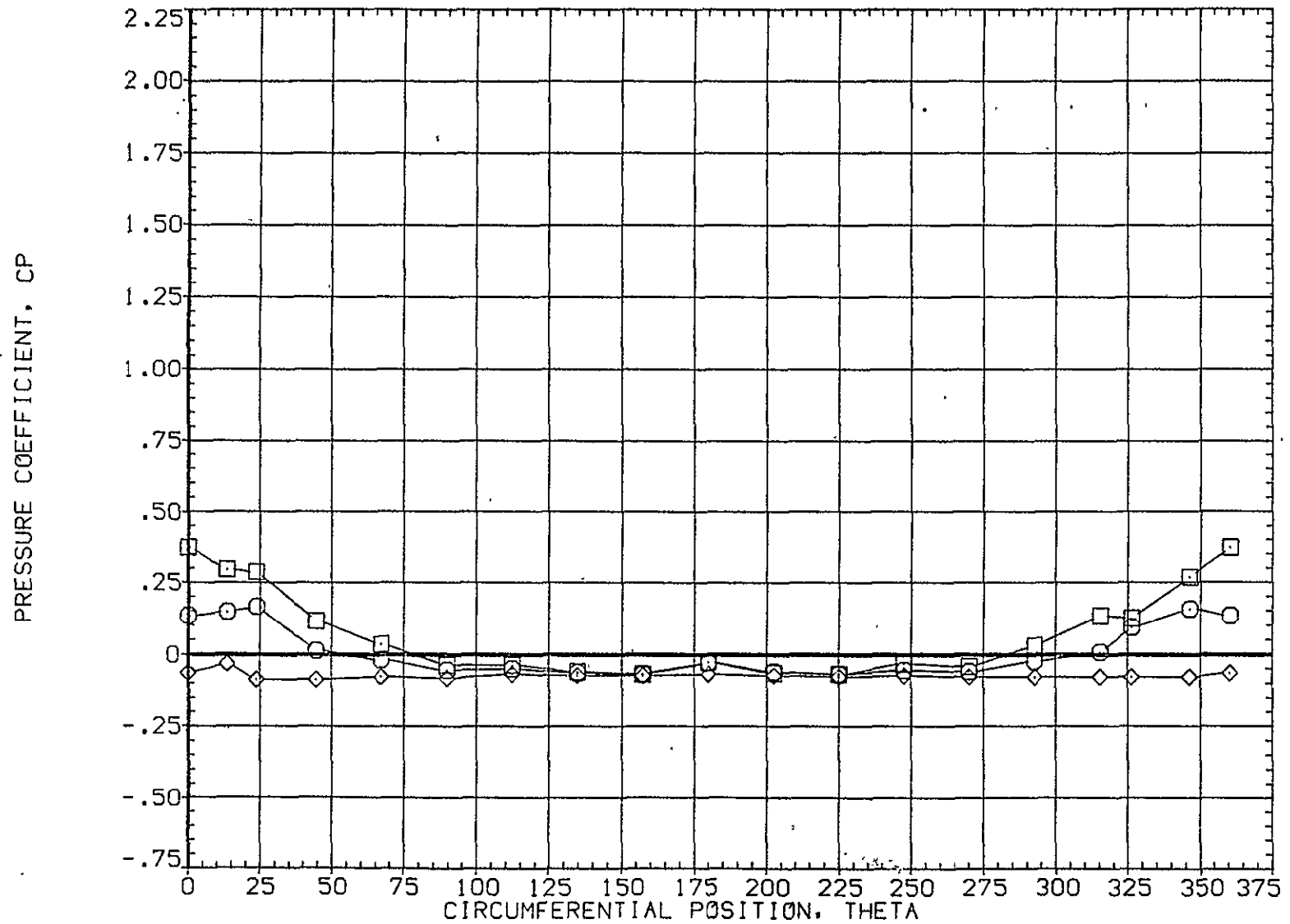


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	16.560	3.480	MOUNT	.000	PHI	180.000
□	.108				1.000		
◇	.162						

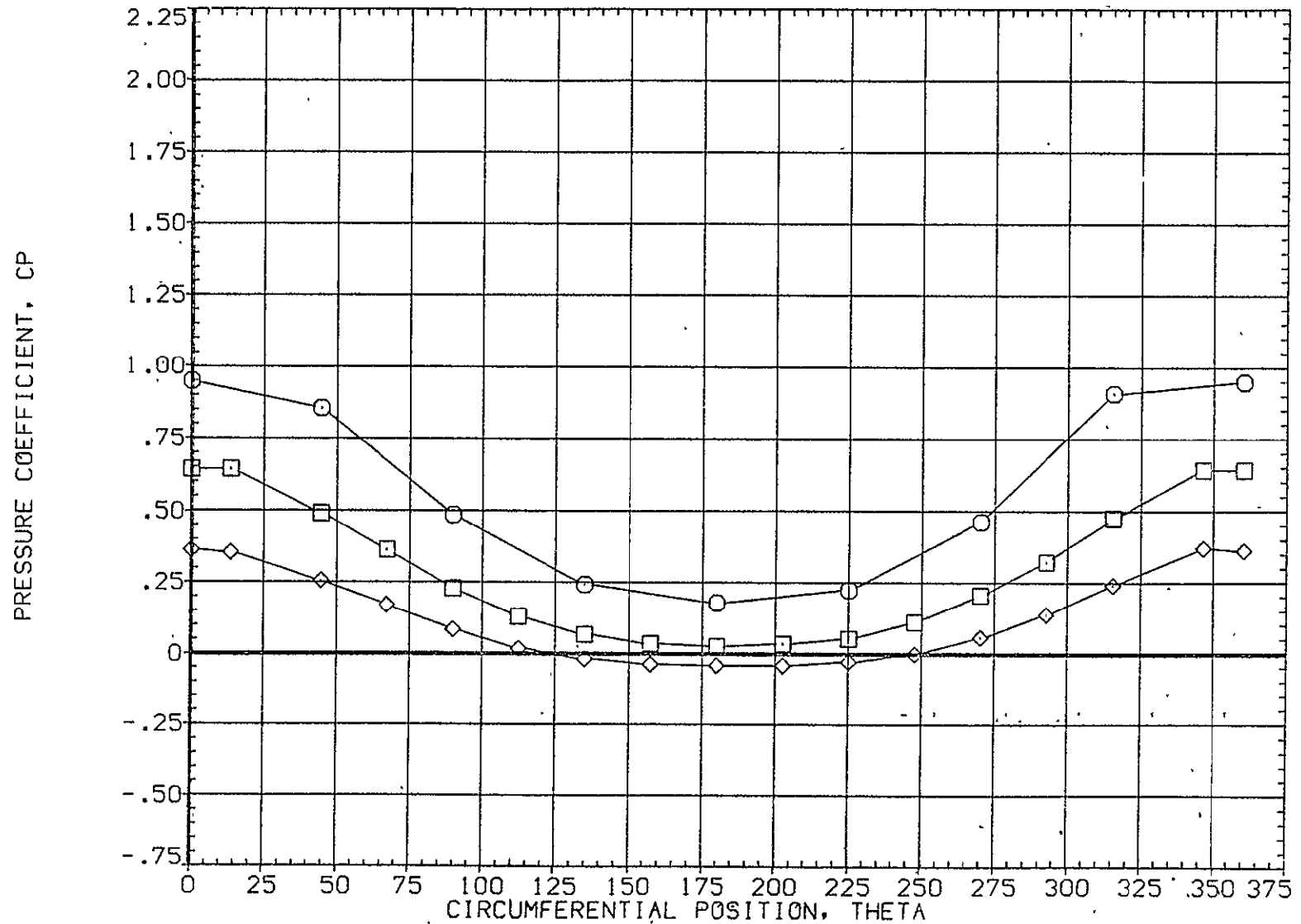


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES-		
				BETA	OFFSET	20.000
○	.216	16.560	3.480	MOUNT	1.000	PHI 180.000
□	.322					
◇	.518					

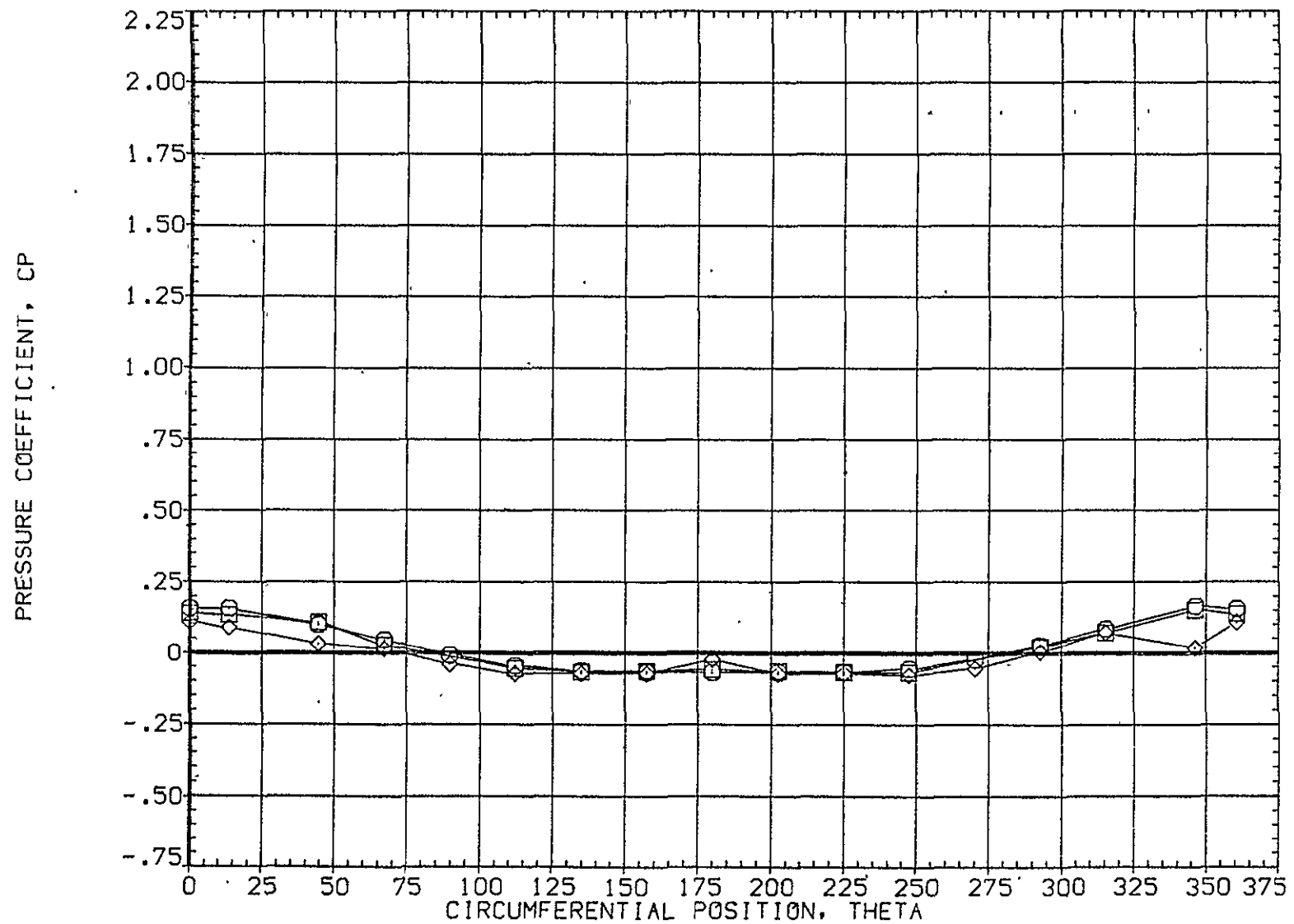


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A037)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	16.560	3.480	.000			
□	.735			1.000	PHI	180.000	
◇	.860						

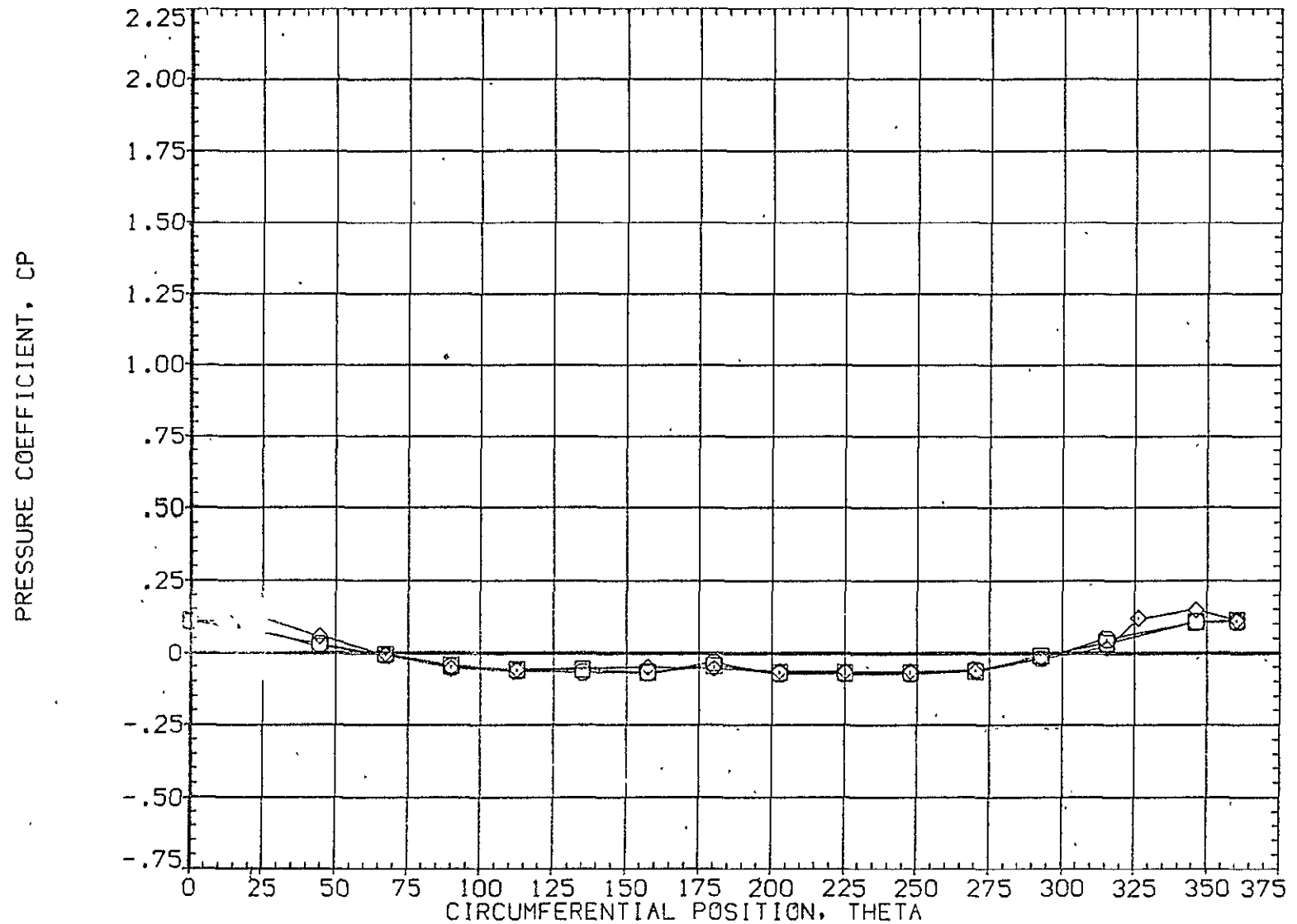


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.892	16.560	3.480	BETA	.000	OFFSET 20.000
□	.923			MOUNT	1.000	PHI 180.000
◇	.954					

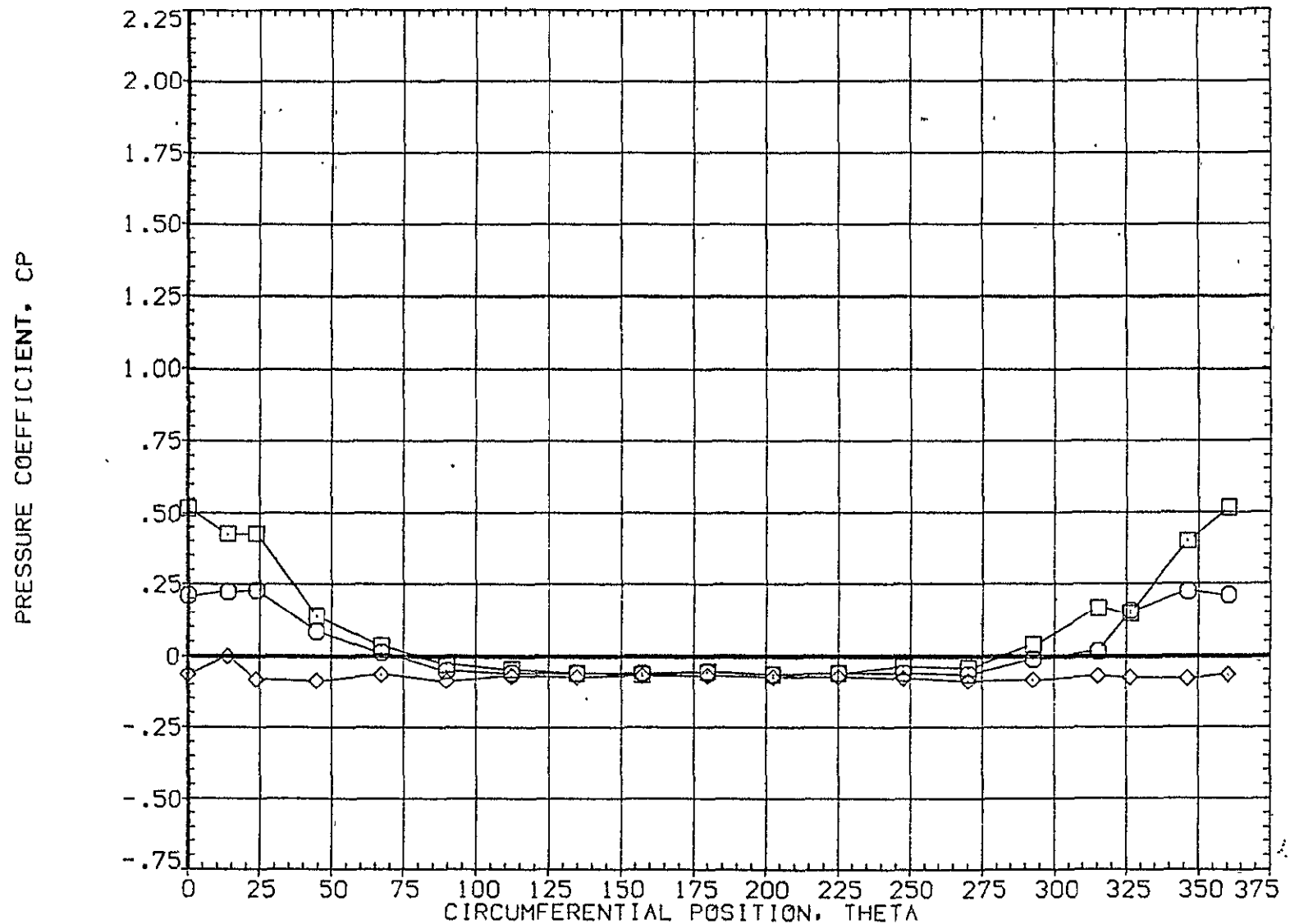


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20,000
○	.055	20.610	3.480	MOUNT	1.000	PHI	180.000
□	.108						
◇	.162						

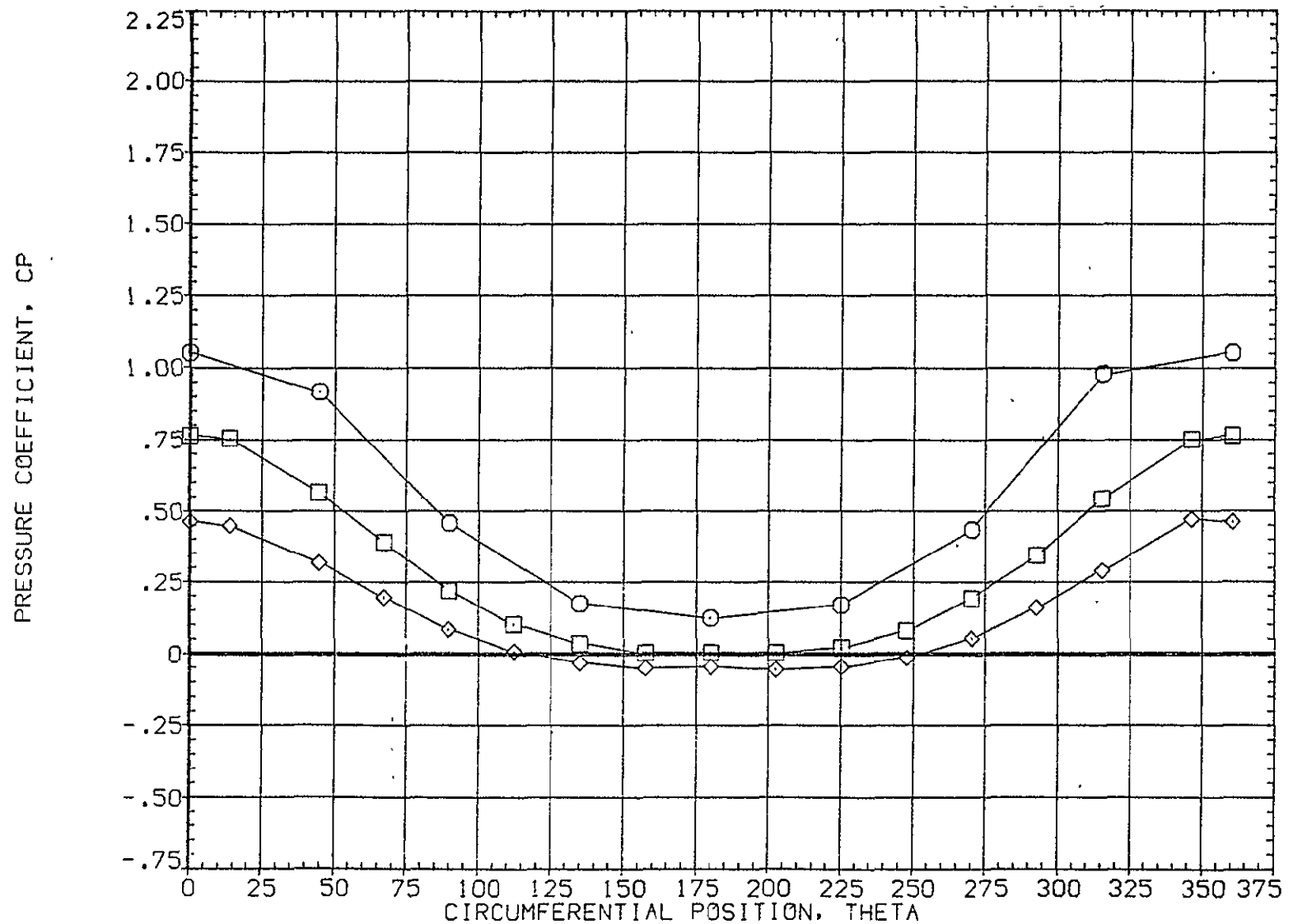


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

BETA

PARAMETRIC VALUES

.000 OFFSET

20.000

MOUNT

1.000 PHI

180.000

PRESSURE COEFFICIENT, CP

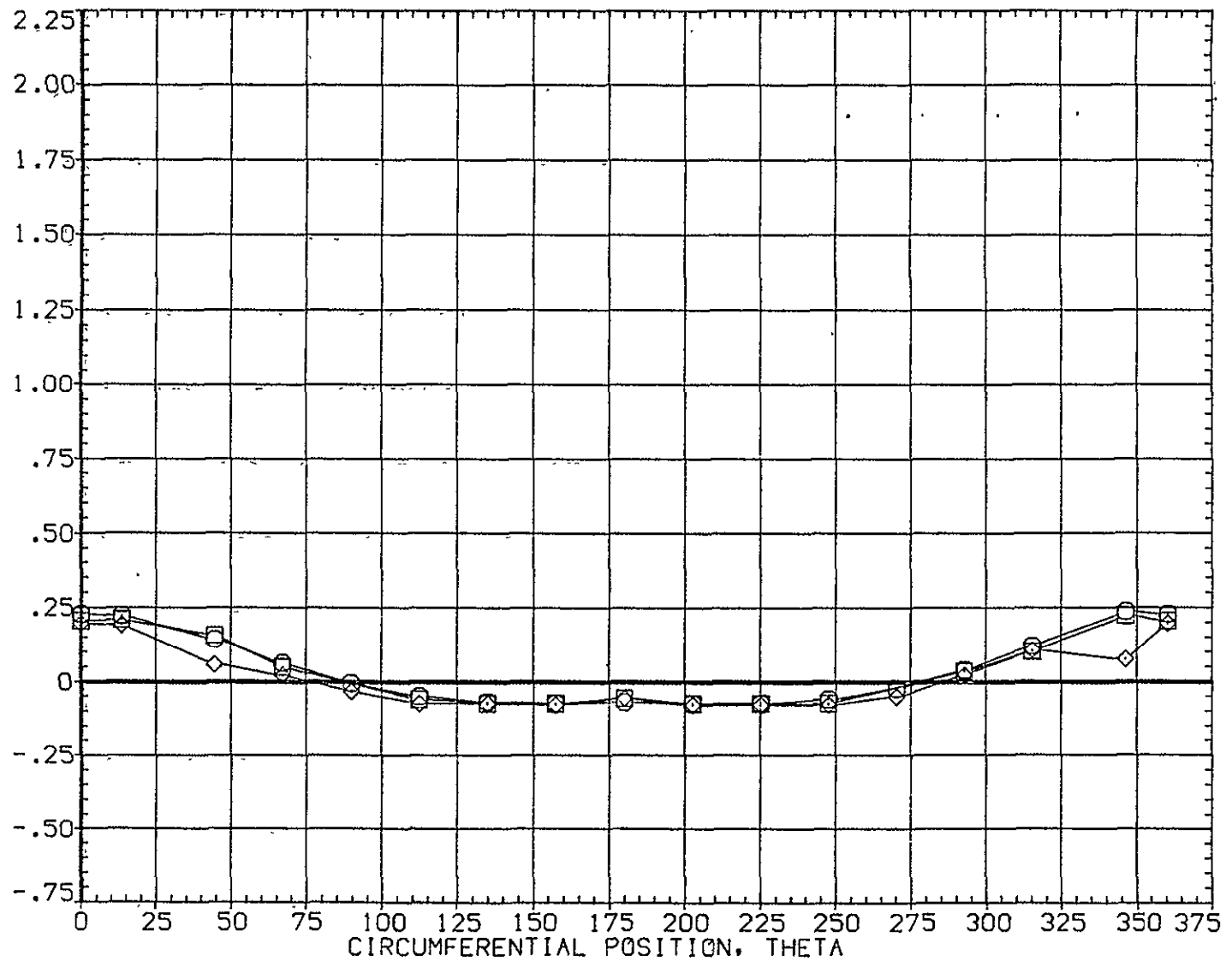


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES.

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(PIA038)

SYMBOL	X/LB	ALPHA	MACH
○	.610	20.610	3.480
□	.735		
◇	.960		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

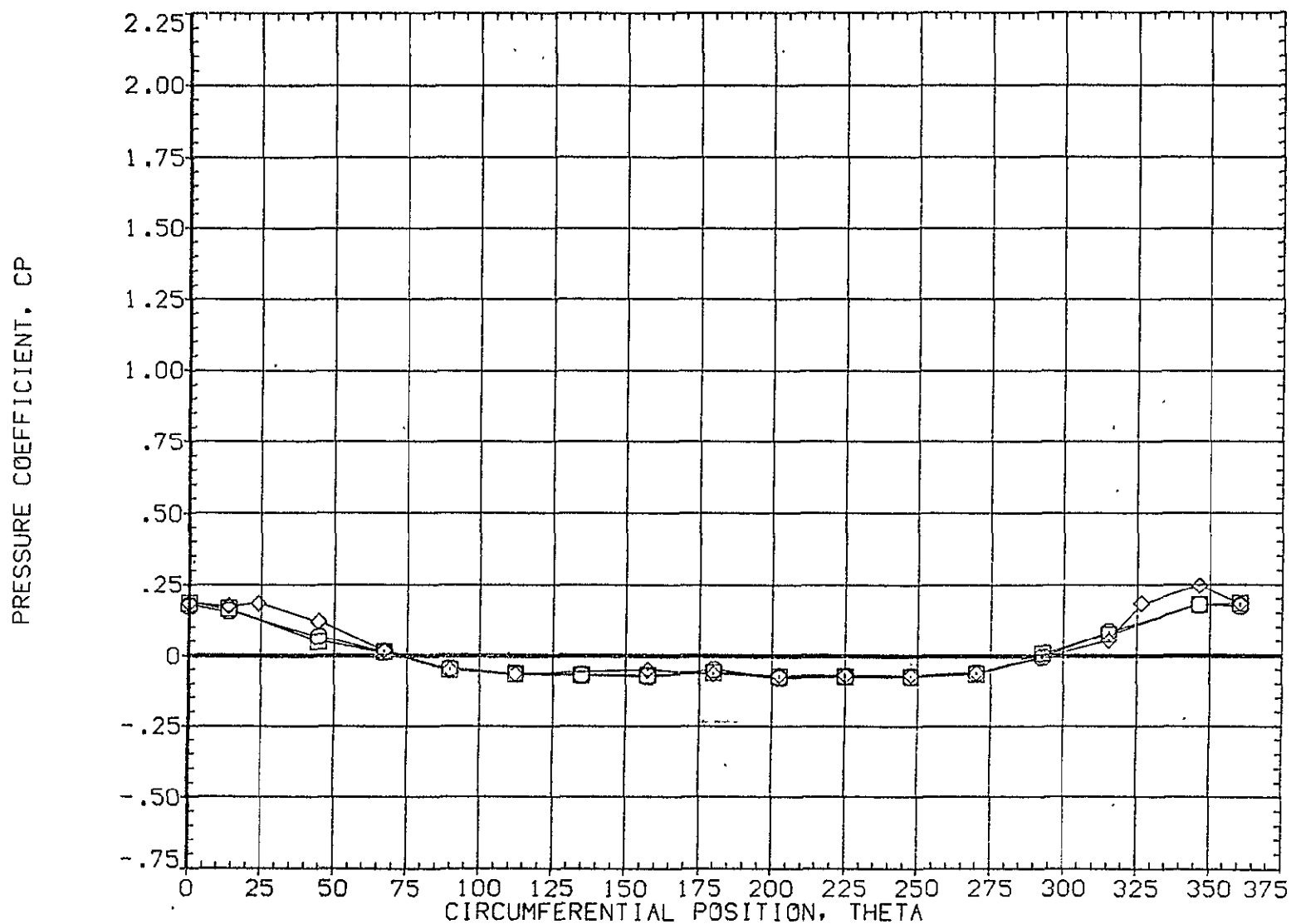


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.892	20.610	3.480	MOUNT	1.000	PHI 180.000
□	.923					
◇	.954					

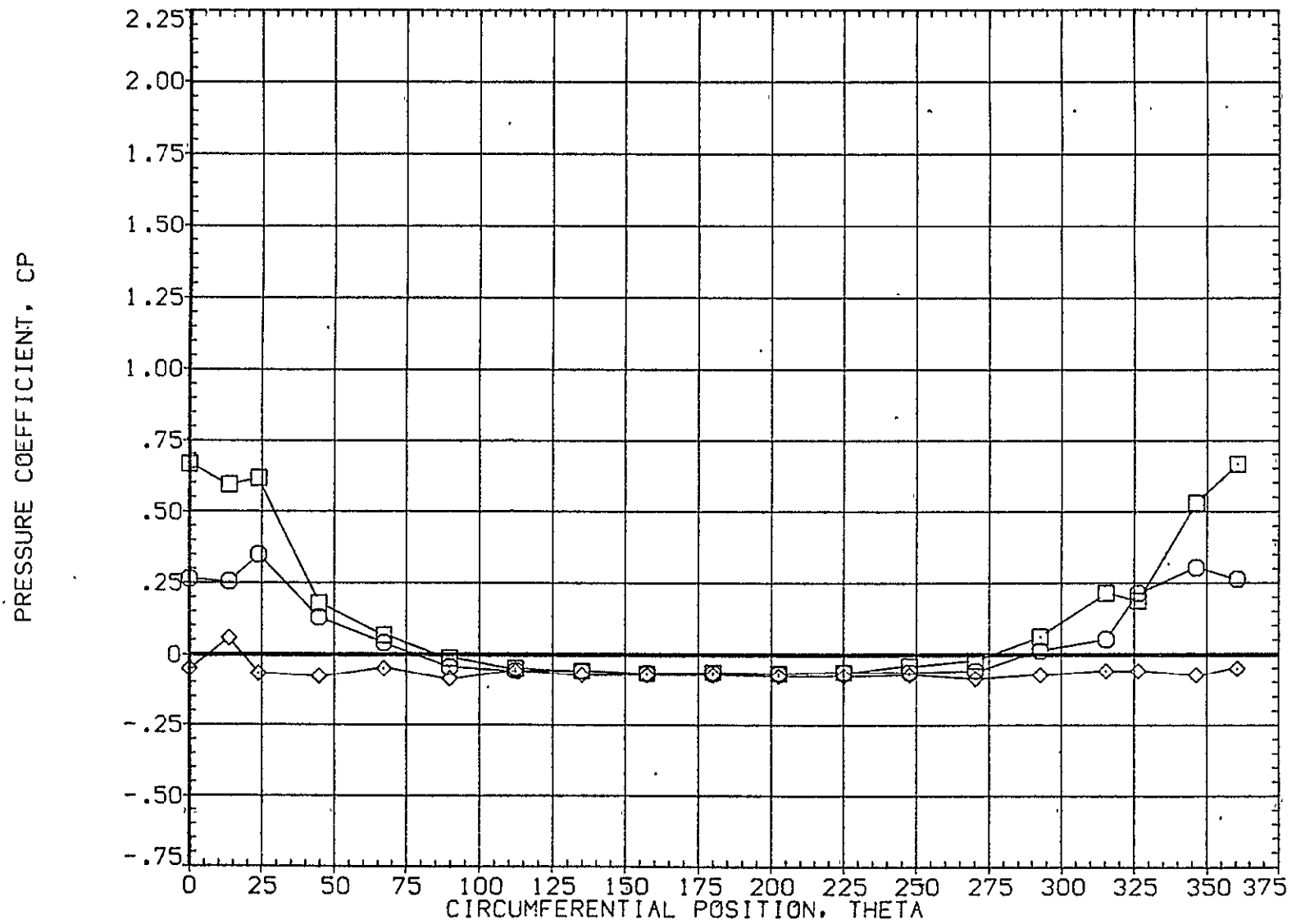


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	24.660	3.480	MOUNT	.000	20.000
□	.108				1.000	PHI 180.000
◇	.162					

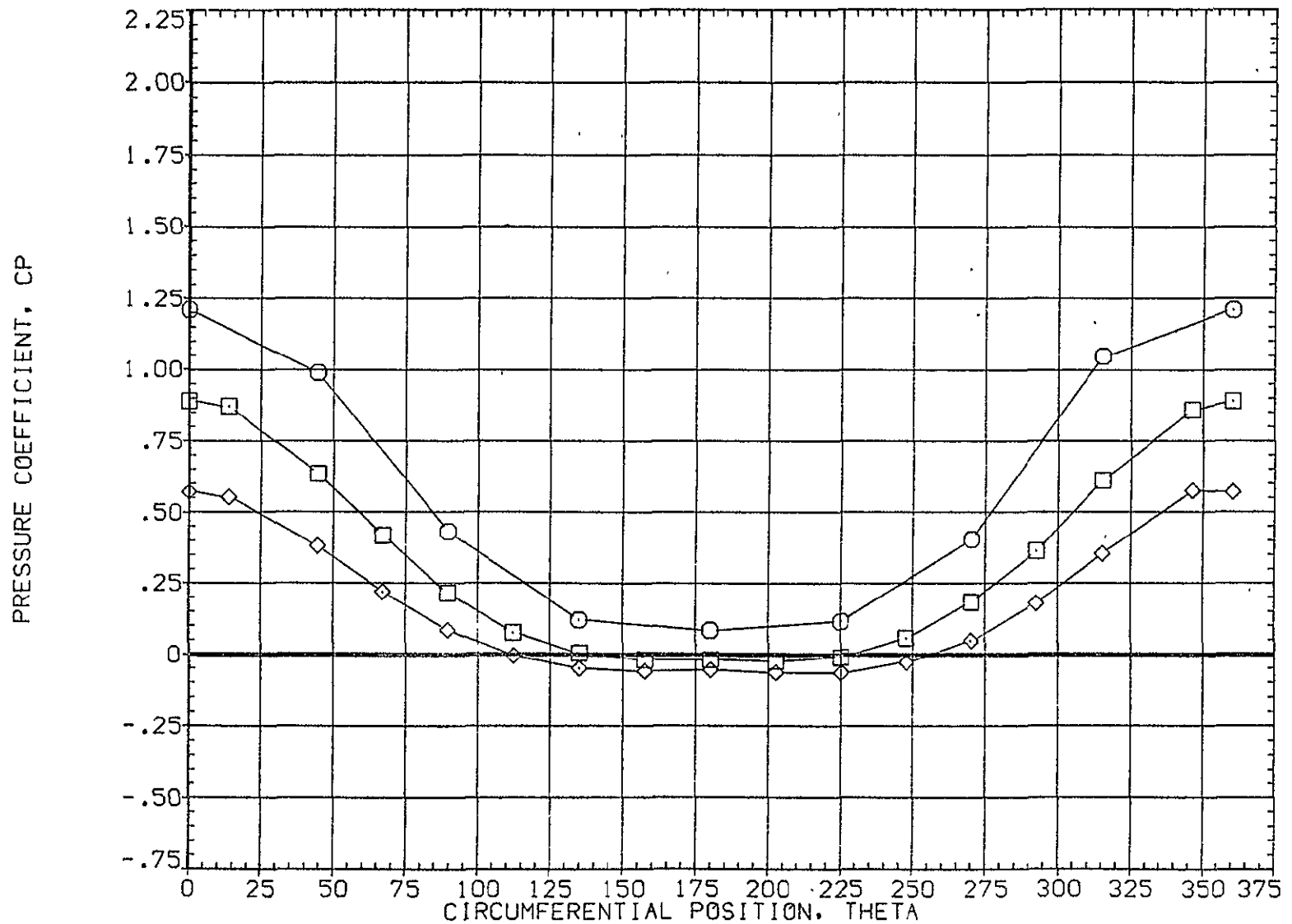


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.216	24.660	3.480	MOUNT	1.000	PHI 180.000
□	.322					
◇	.518					

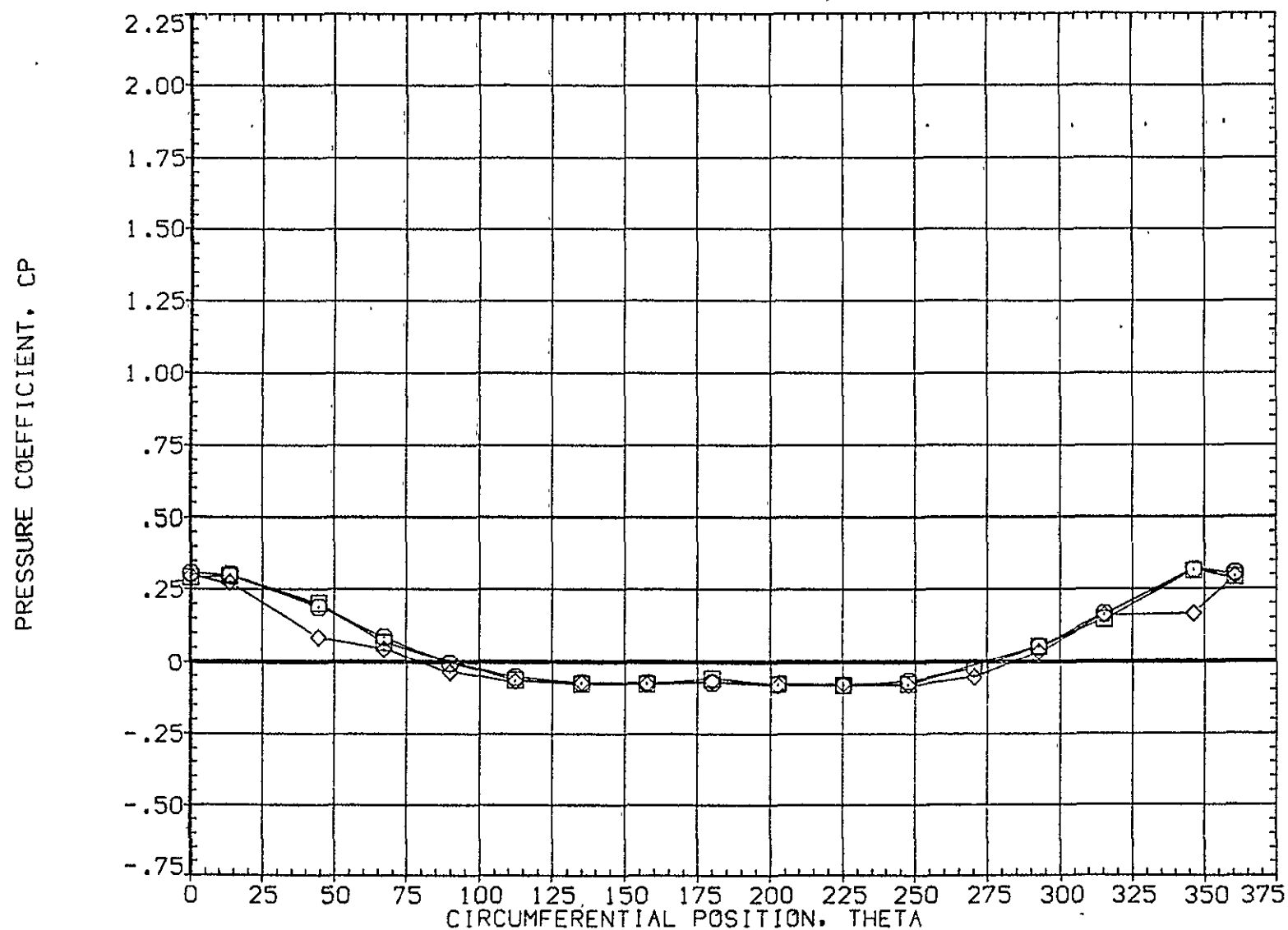


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	24.660	3.480		.000		20.000
□	.735			MOUNT	1.000		180.000
◇	.860						

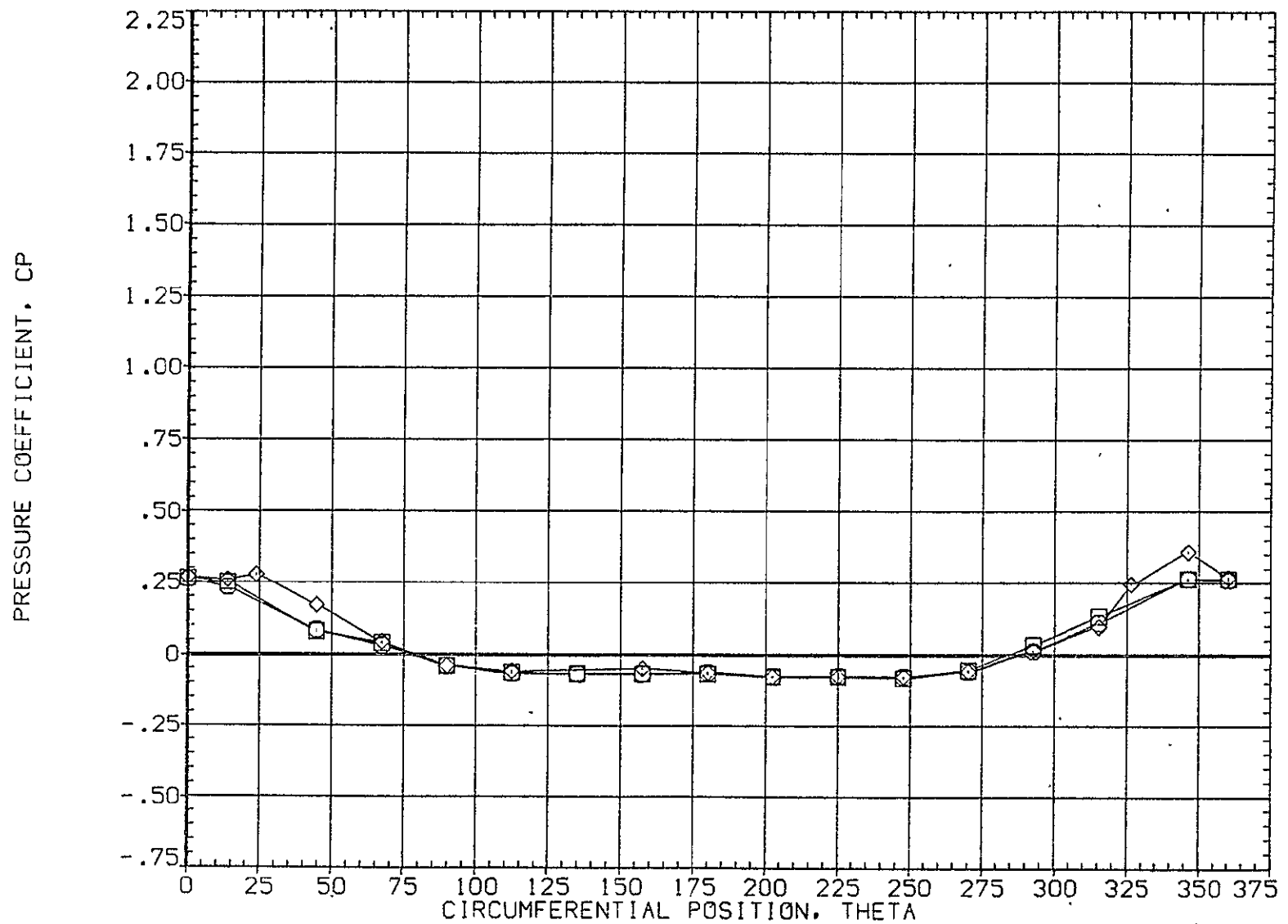


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	24.660	3.480	MOUNT	.000	20.000	
□	.923				1.000	PHI	180.000
◇	.954						

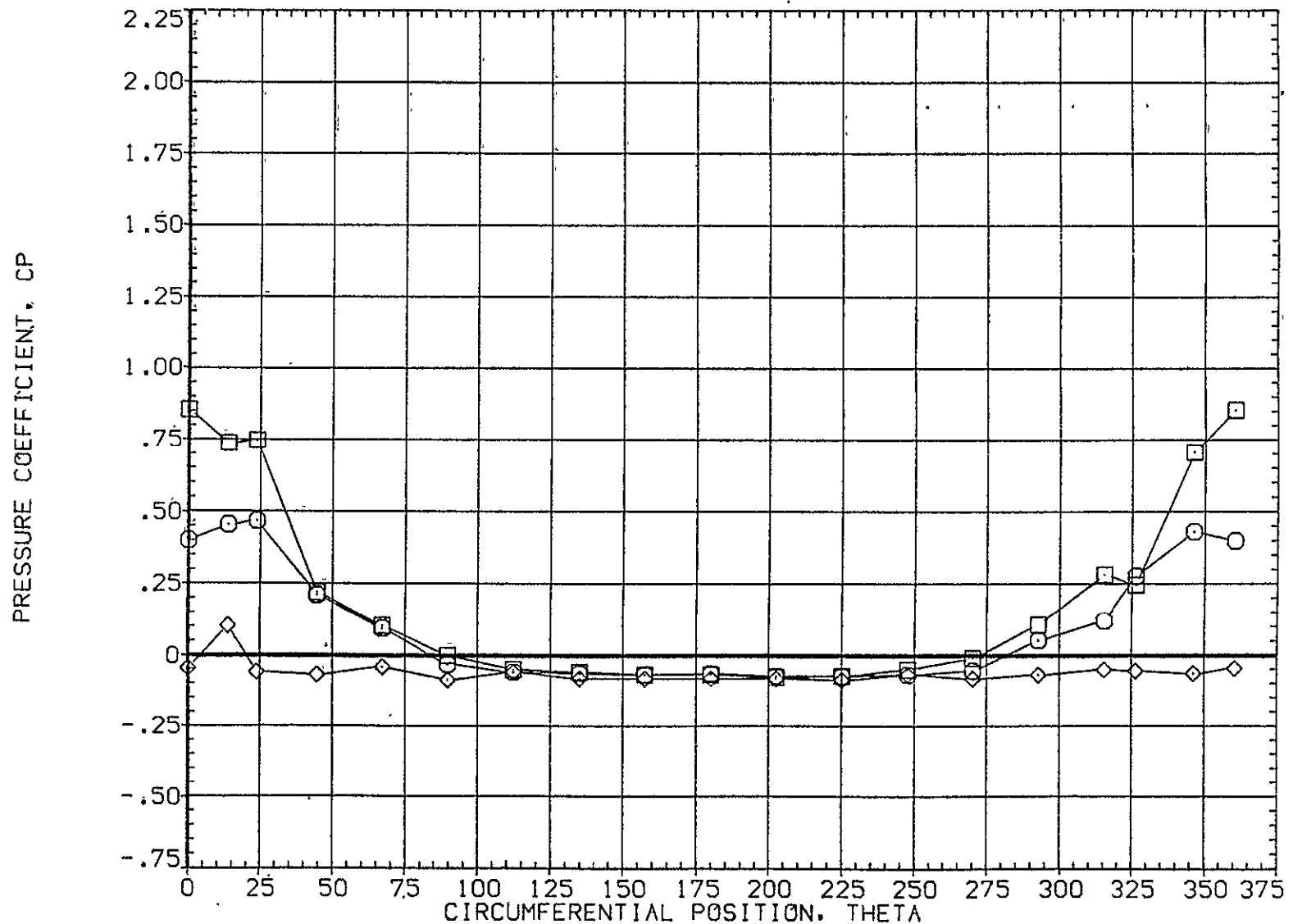


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A040)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	28.700	3.480	MOUNT	.000	PHI	180.000
□	.108				1.000		
◇	.162						

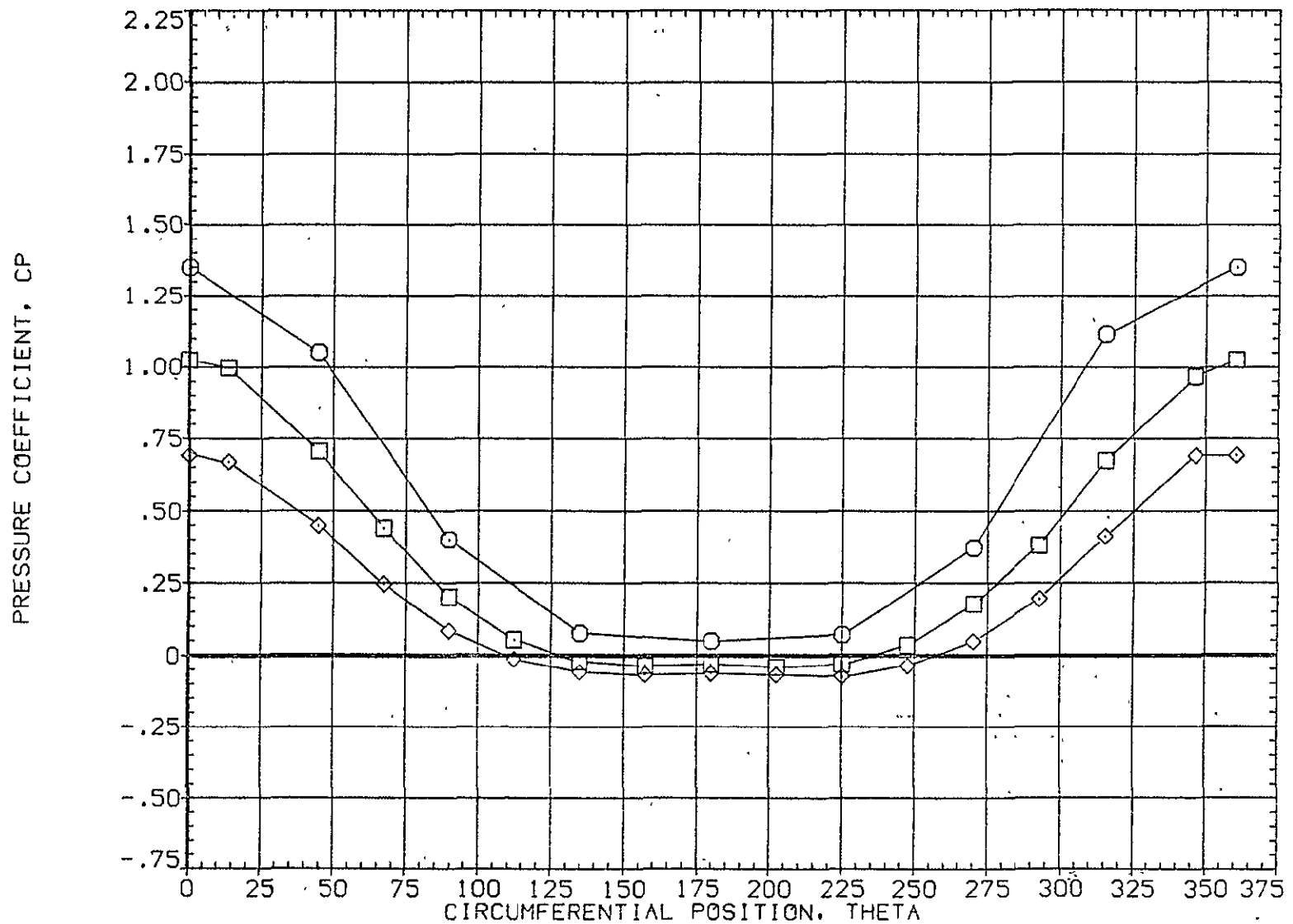


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	28.700	3.480	BETA	.000	OFFSET 20.000
□	.322			MOUNT	1.000	PHI 180.000
◇	.518					

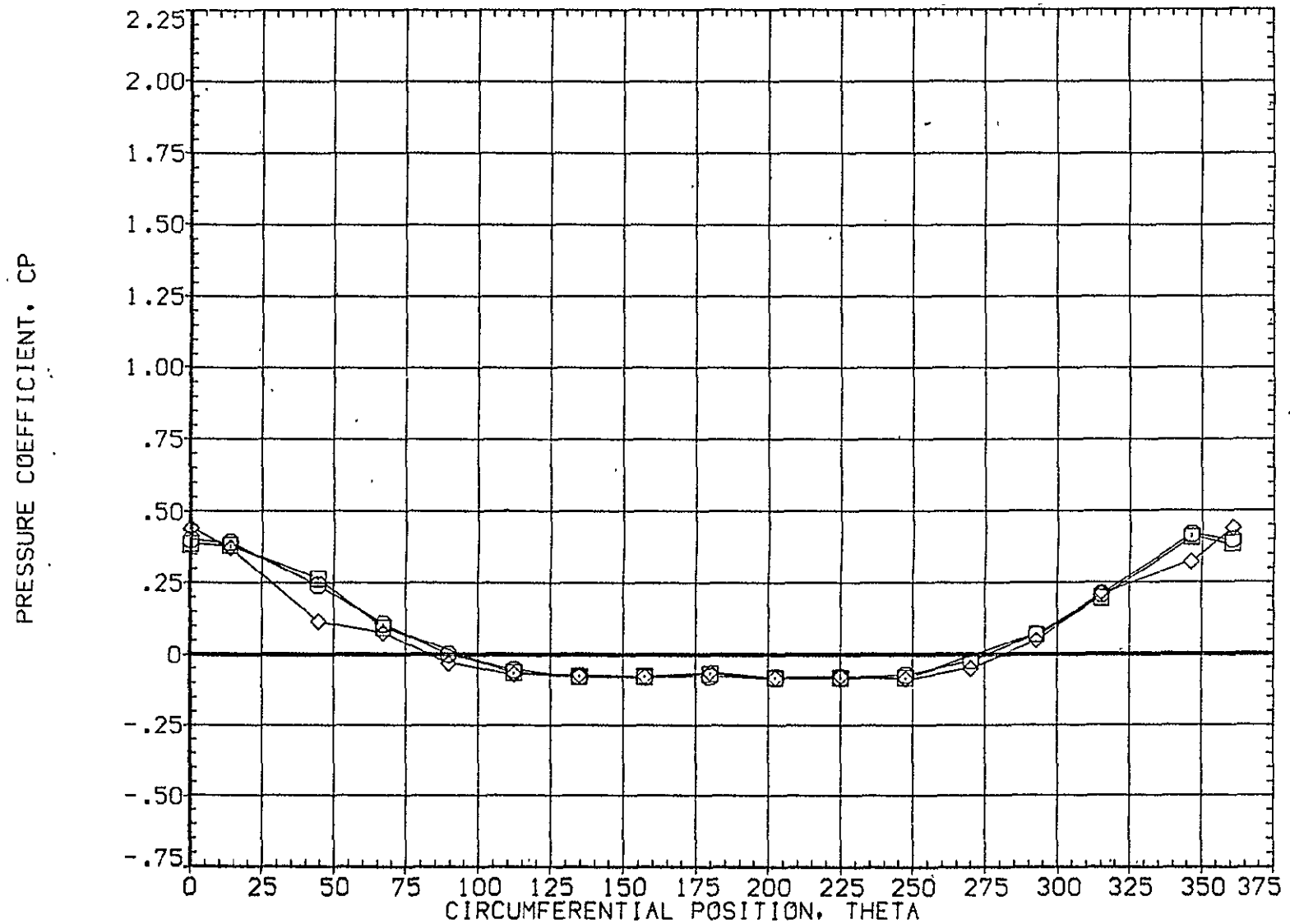


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
○	.610	28.700	3.480	MOUNT	1.000	PHI	180.000
□	.735						
◇	.860						

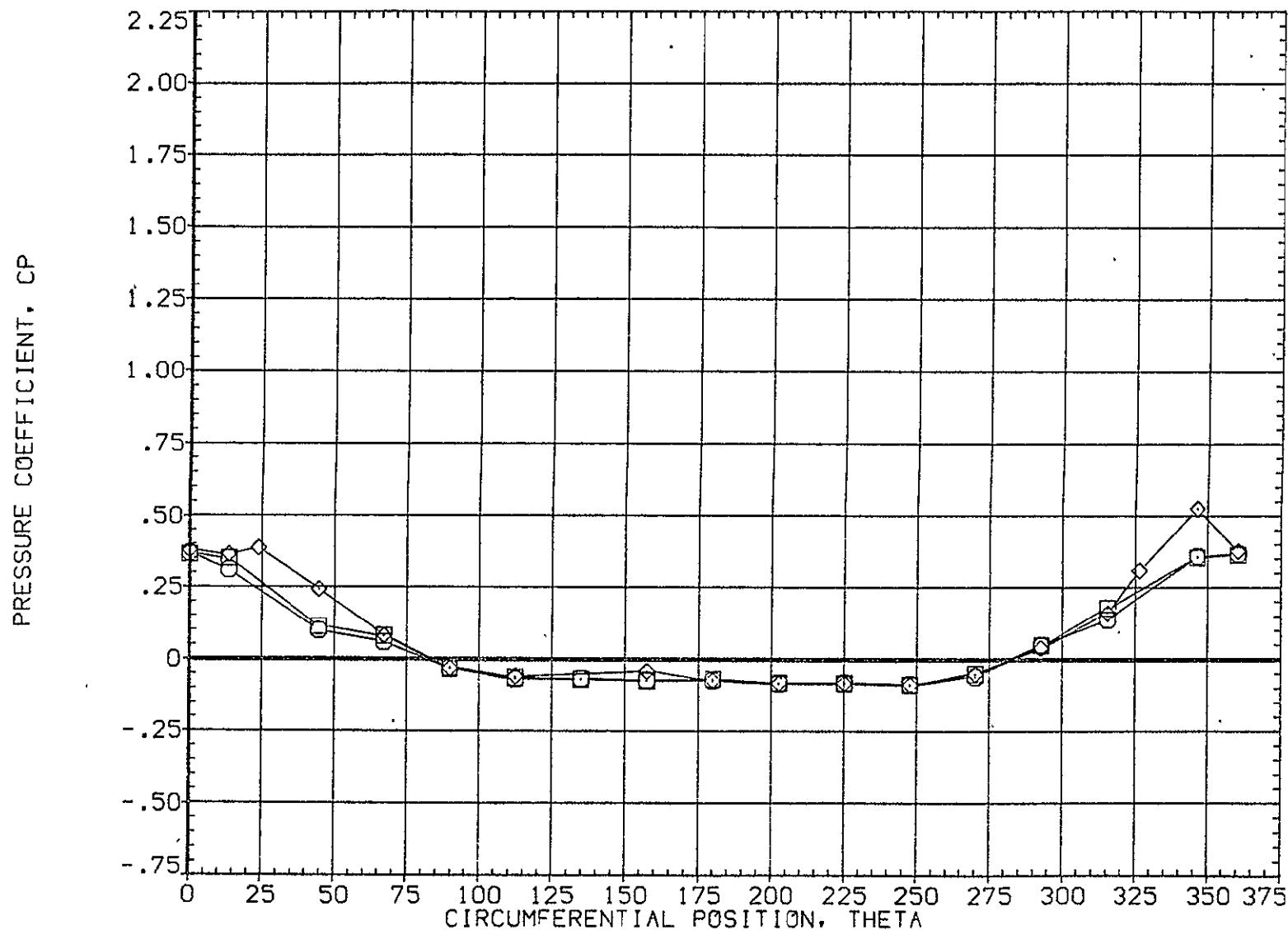


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.892	28.700	3.480	MOUNT	1.000	PHI
□	.923					180.000
◇	.954					

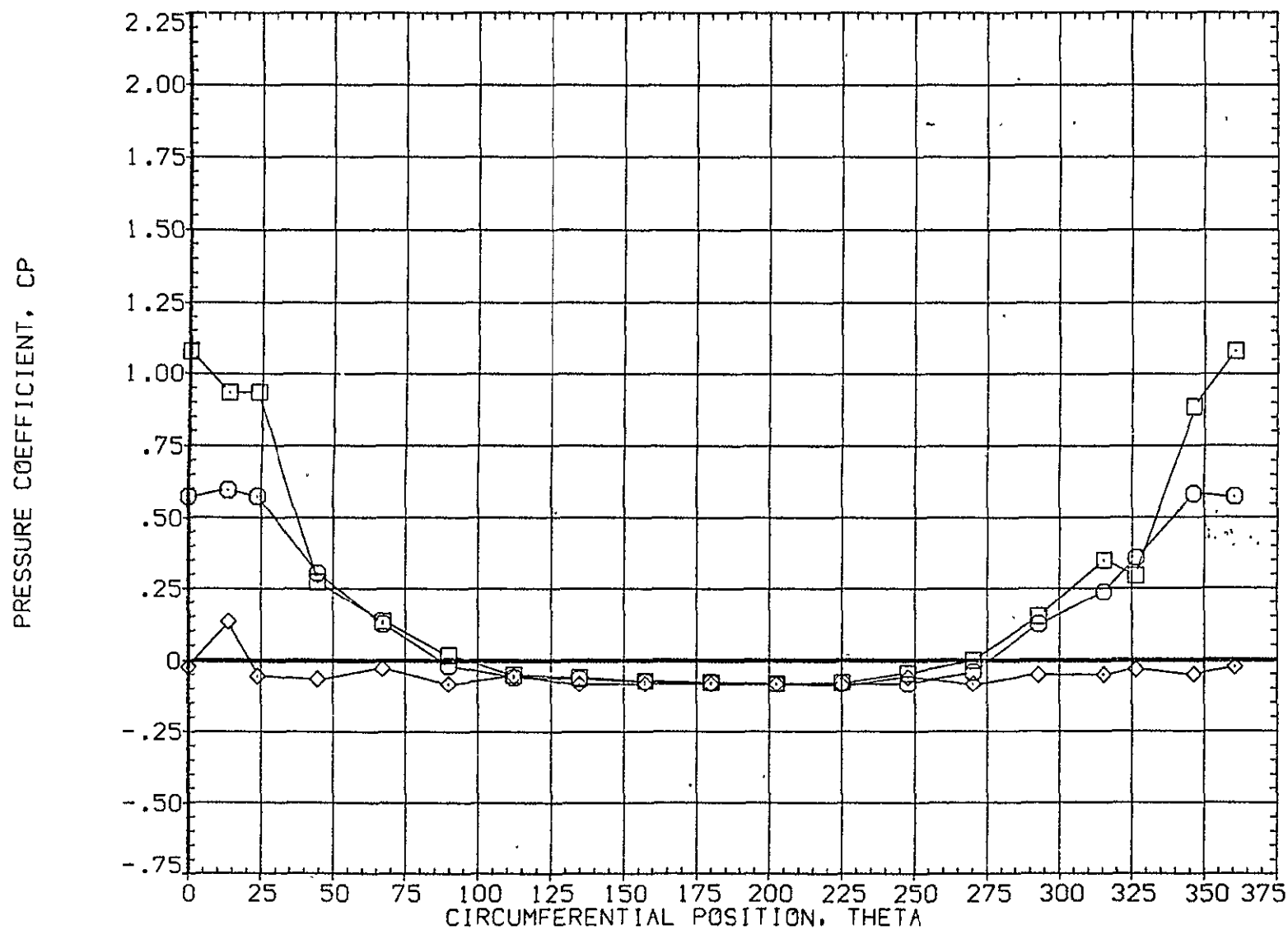


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A041)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	-8.360	3.480	MOUNT	.000	PHI	225.000
□	.108				1.000		
◇	.162						

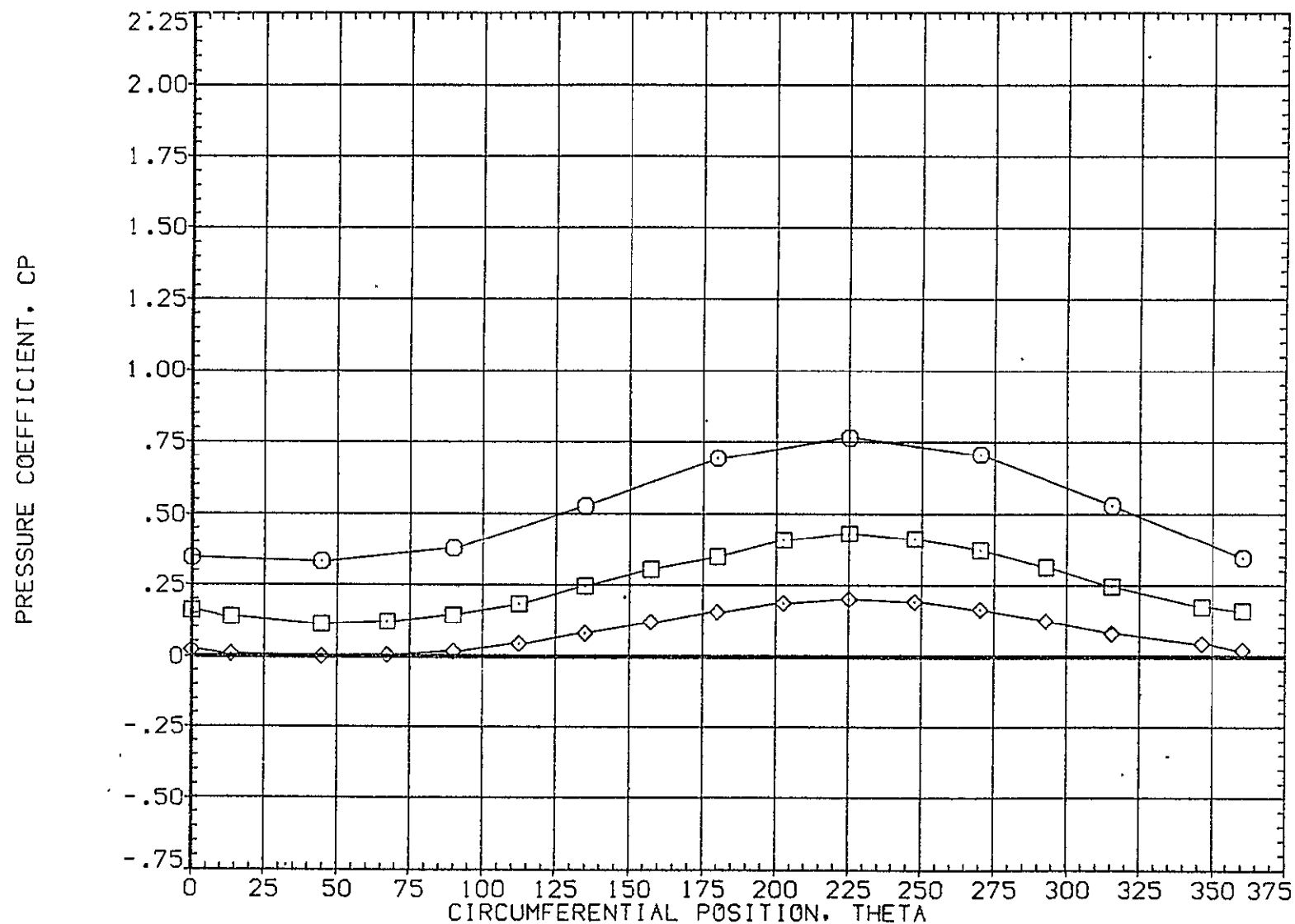


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.216	-8.360	3.480	BETA	.000	OFFSET	.000
□	.322			MOUNT	1.000	PHI	225.000
◇	.518						

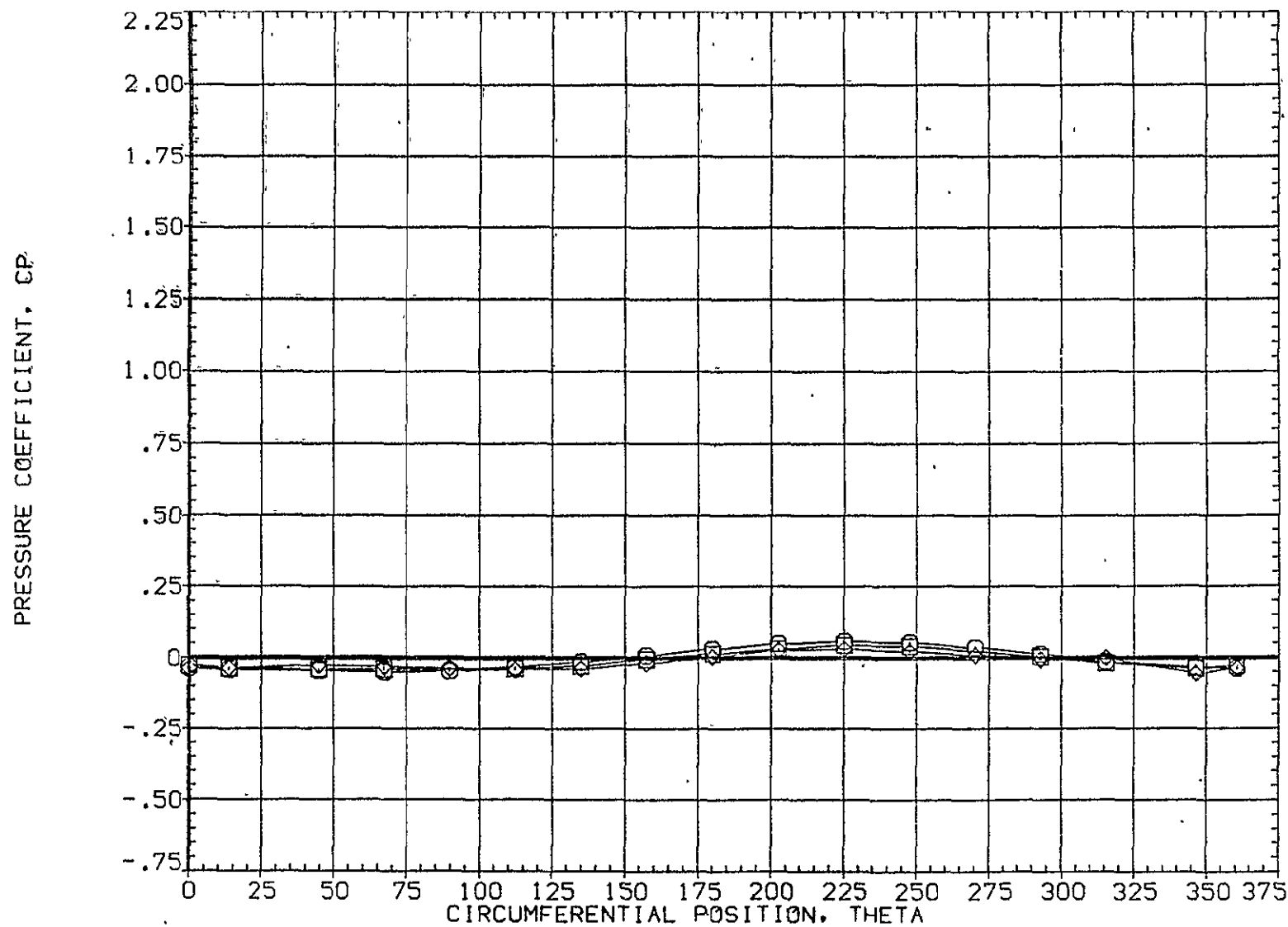


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A041)

SYMBOL	X/LB	ALPHA	MACH		PARAMETRIC VALUES		
○	.610	-8.360	3.480	BETA	.000	OFFSET	.000
□	.735			MOUNT	1.000	PHI	225.000
◇	.860						

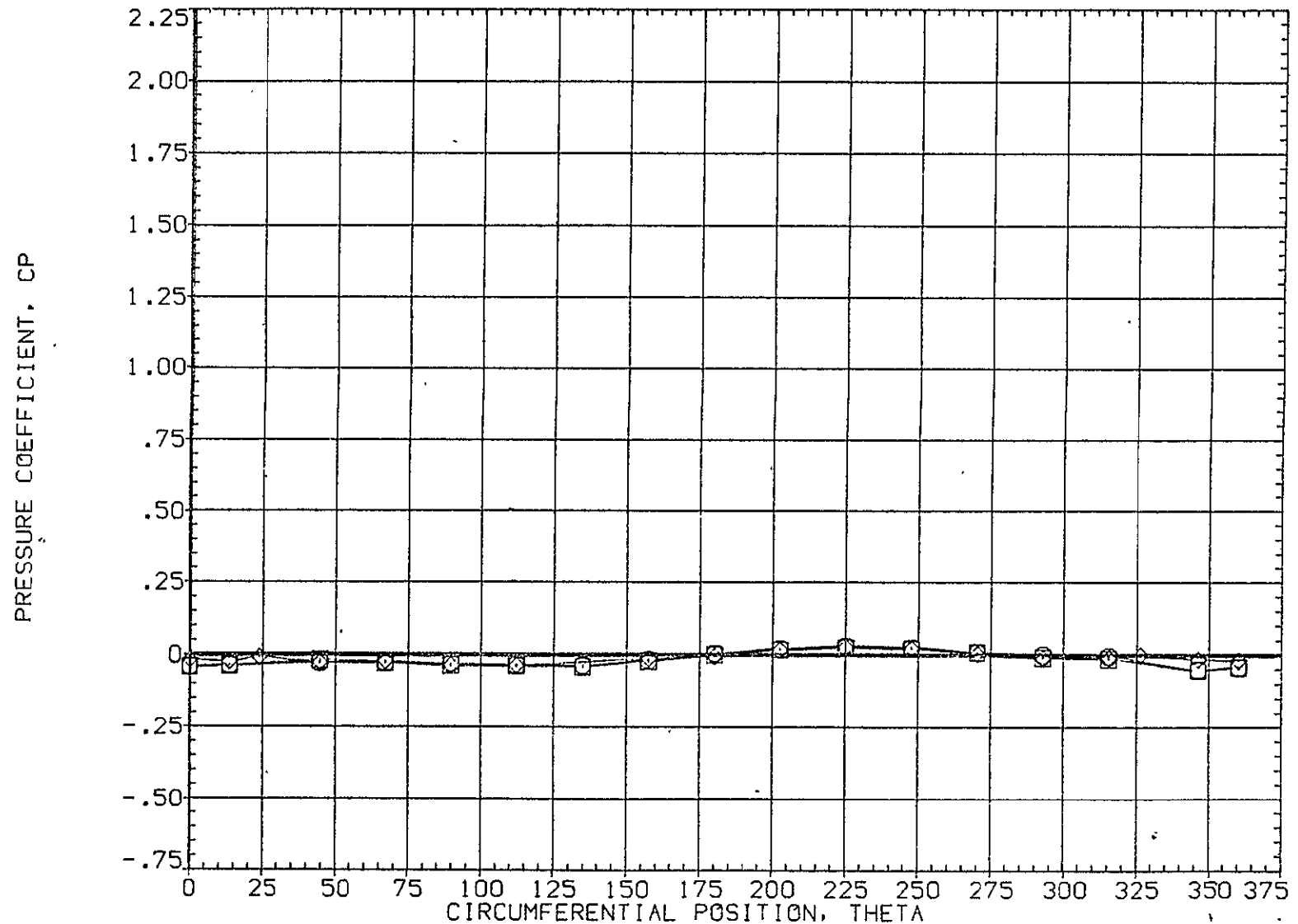


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-8.360	3.480	.000	.000	.000
□	.923			1.000	PHI	225.000
◇	.954					

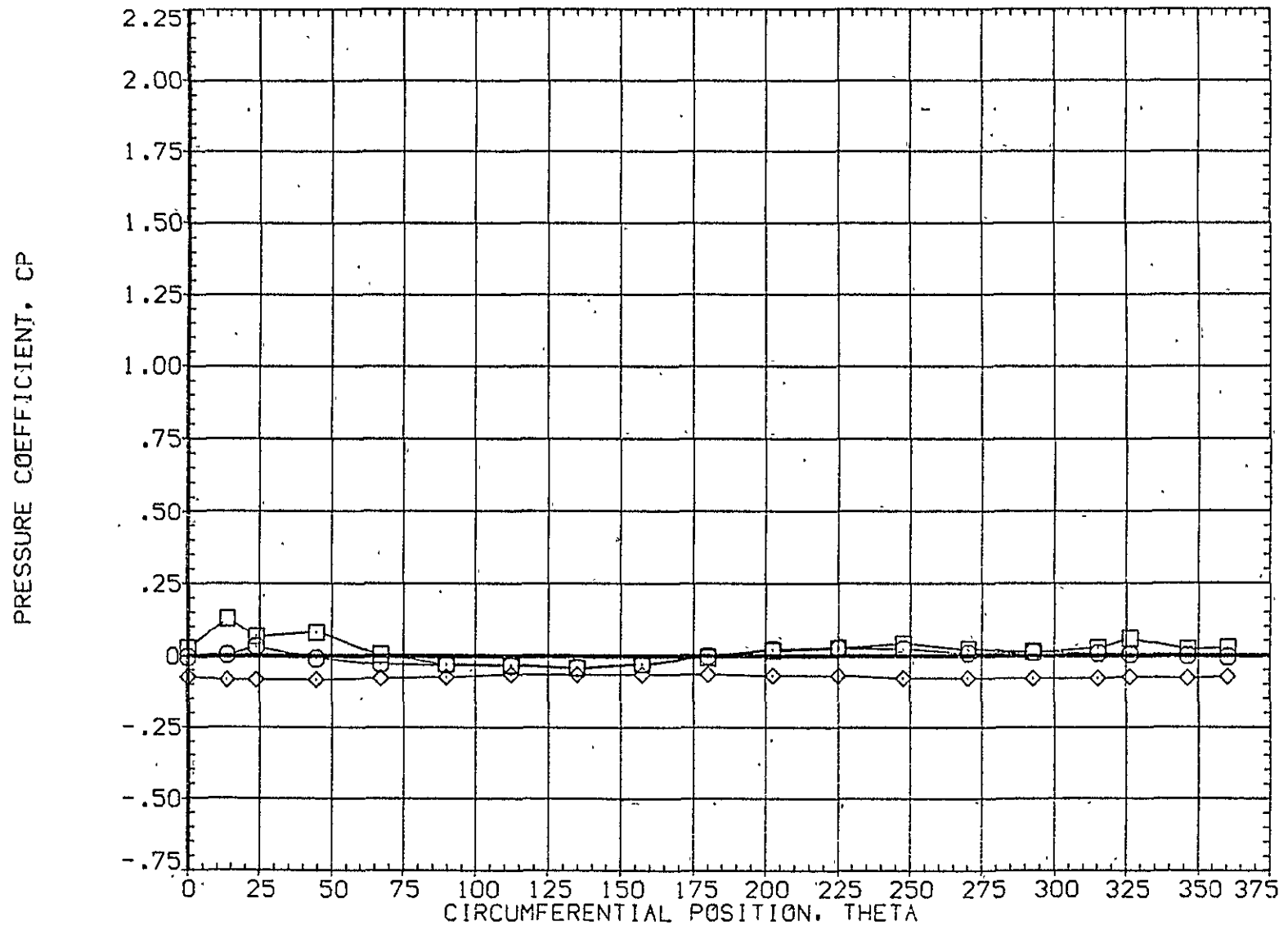


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A042)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-4.330	3.480	.000		.000	
□	.108			1.000	PHI	225.000	
◇	.162						

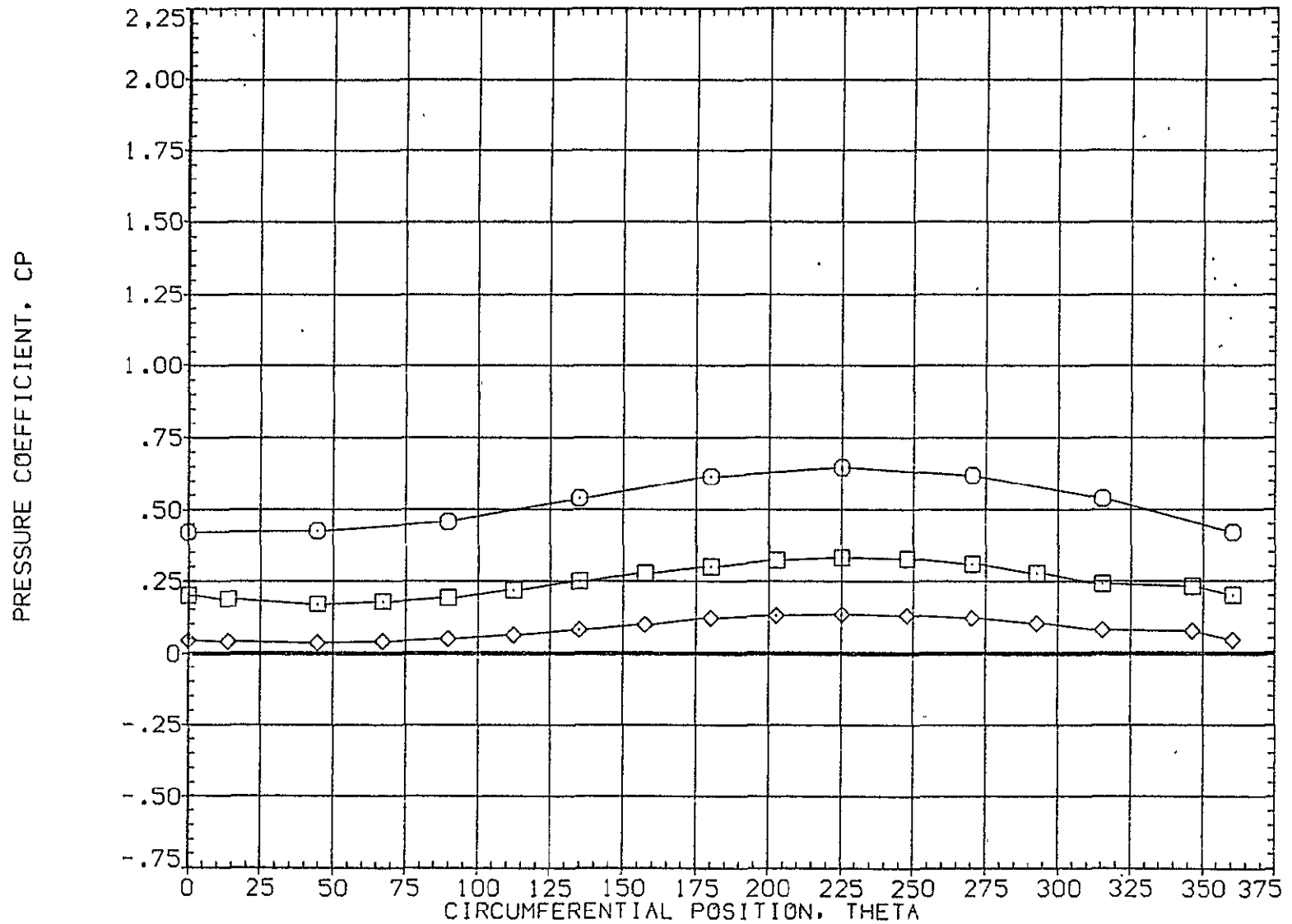


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI	PHI
○	.216	-4.330	3.480		.000			.000
□	.322			MOUNT	1.000			225.000
◇	.518							

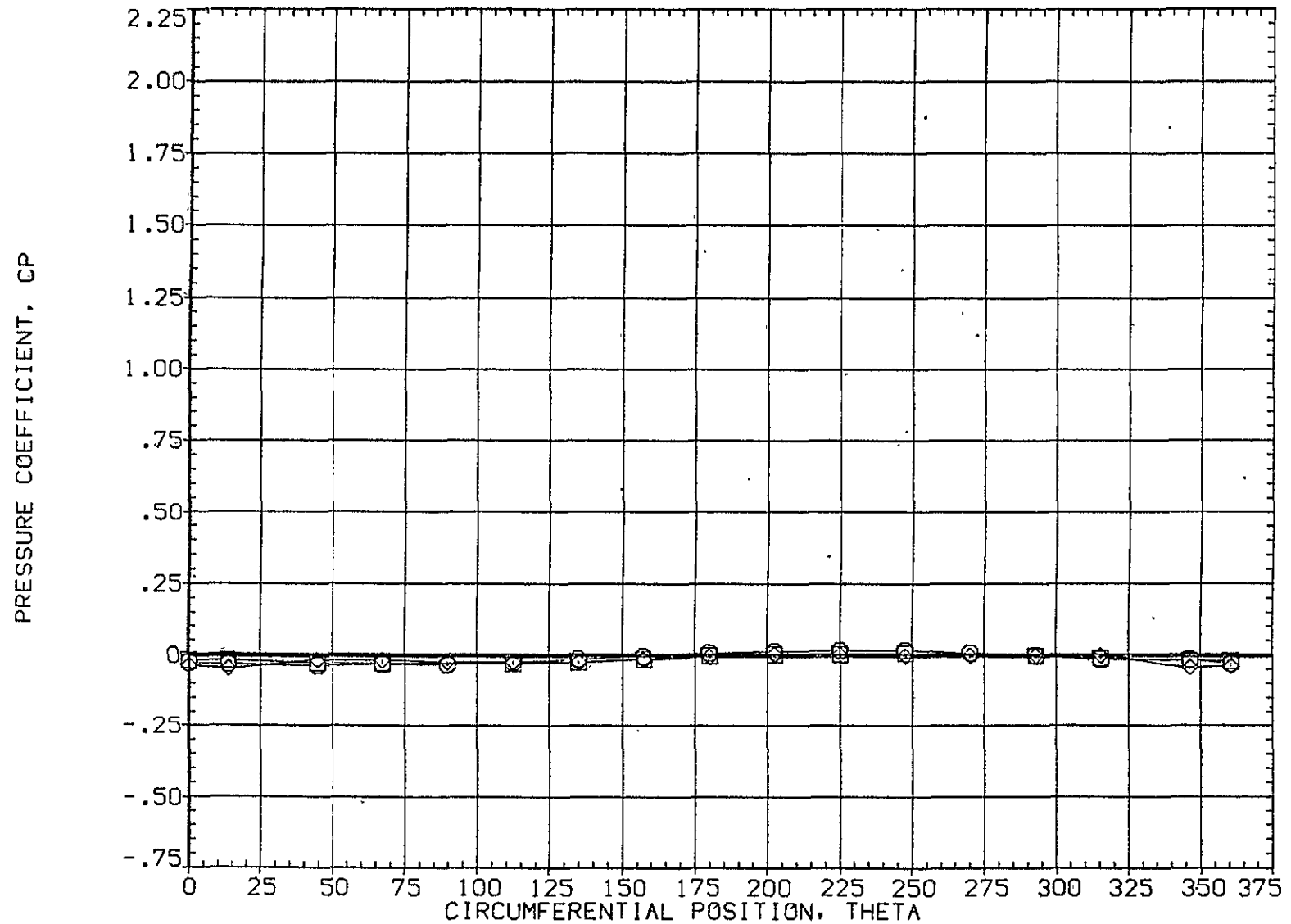


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-4.330	3.480	MOUNT	.000	PHI	.000
□	.735				1.000		225.000
◇	.860						

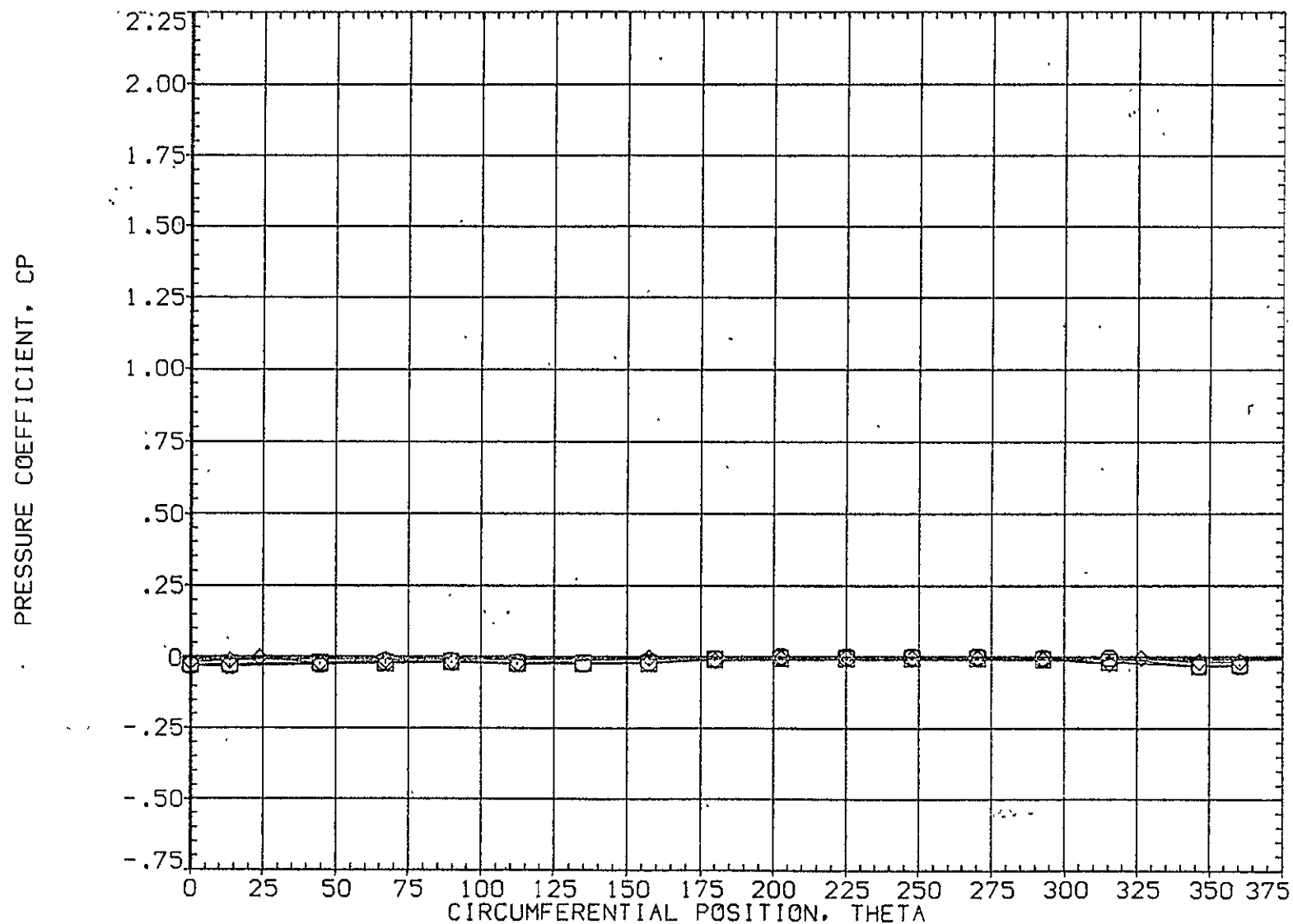


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.892	-4.330	3.480		.000	.000
□	.923				1.000	225.000
◇	.954					

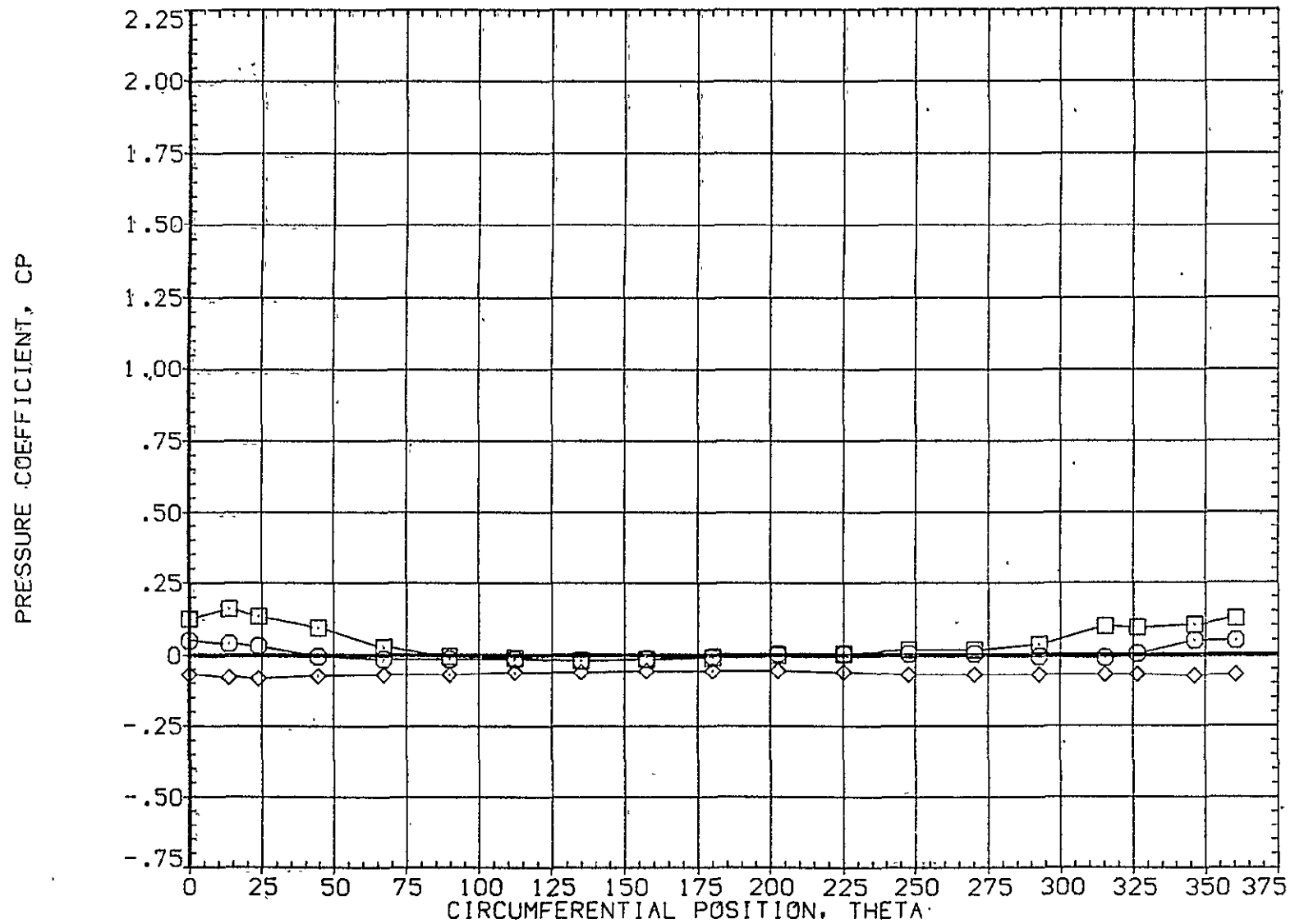


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	-.280	3.480
□	.108		
◇	.162		

BETA	PARAMETRIC VALUES	OFFSET	
MOUNT	.000	PHI	.000
	1.000		225.000

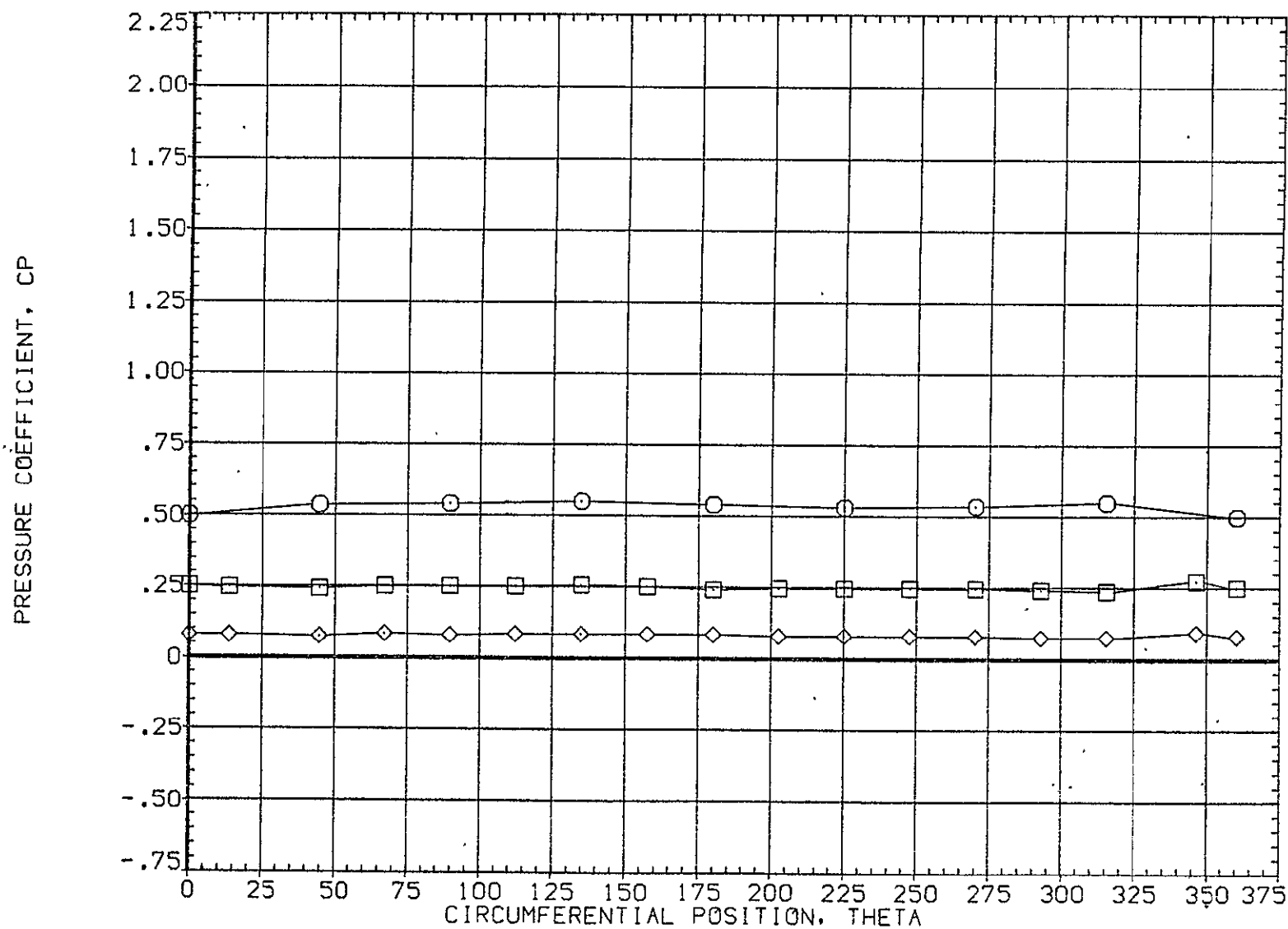


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.216	-.280	3.480	.000		.000	
□	.322			1.000	PHI	225.000	
◇	.518						

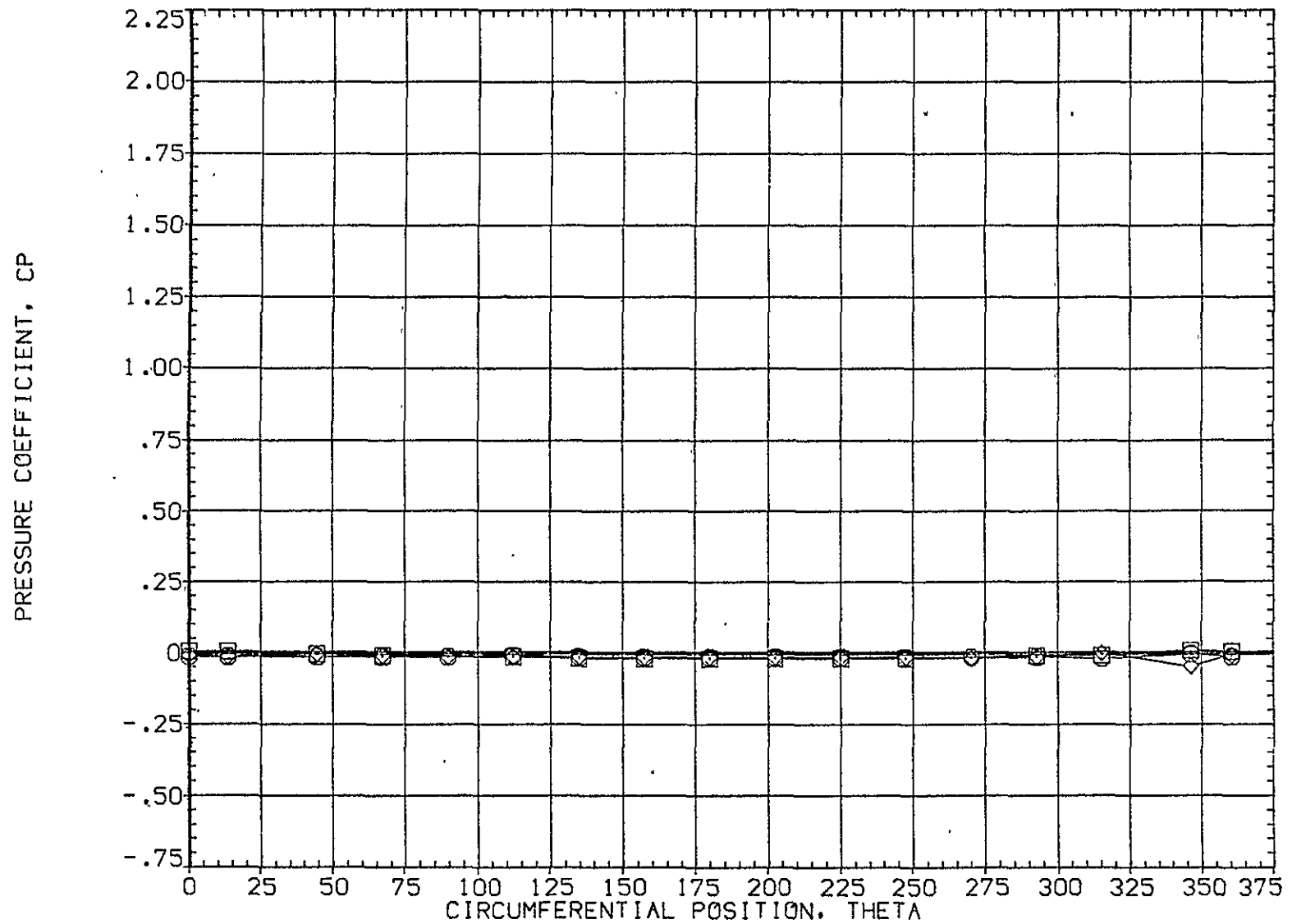


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A043)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES				
	○	.610	-.280	3.480	BETA	.000	OFFSET	.000
	□	.735			MOUNT	1.000	PHI	225.000
◇	.860							

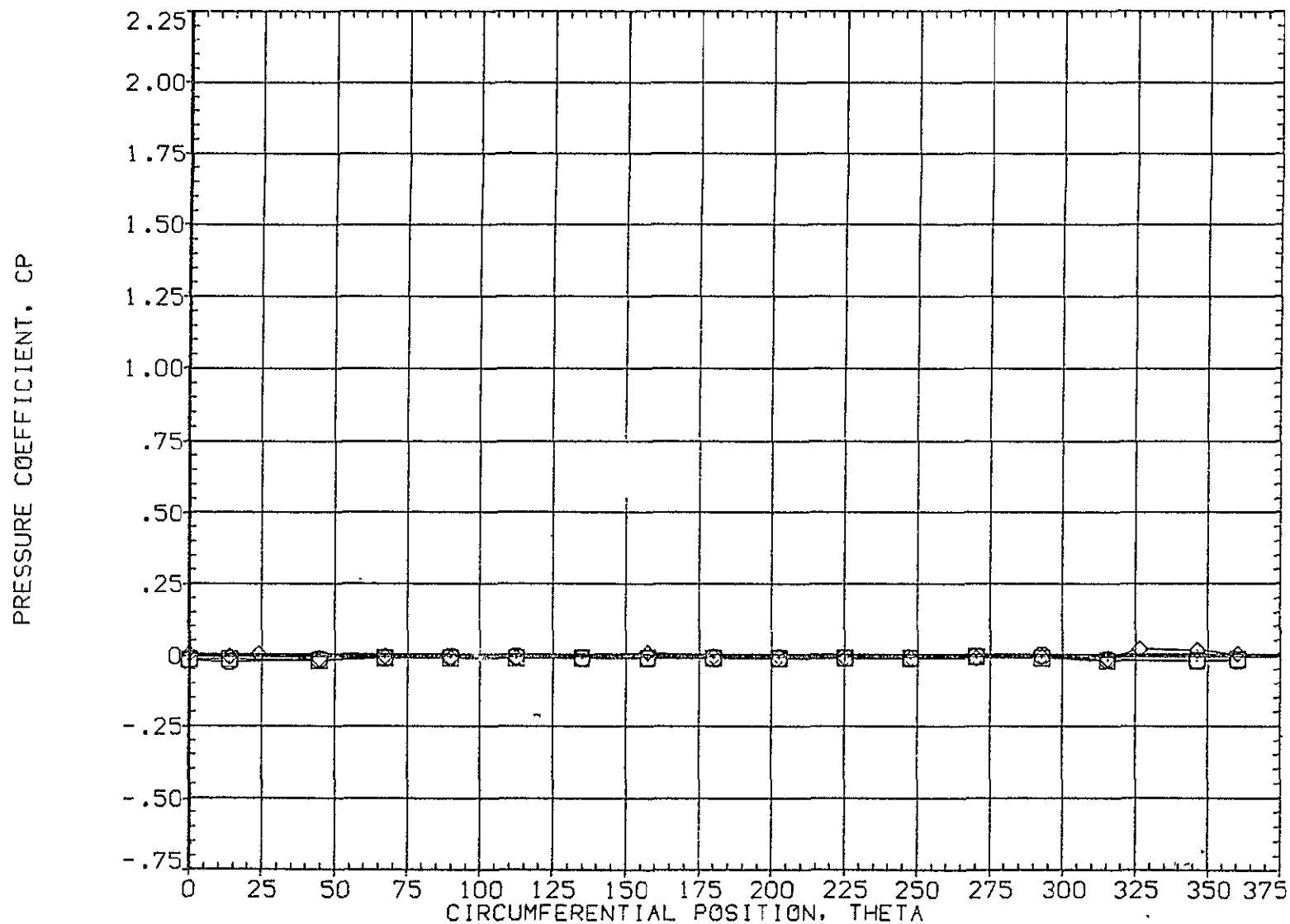


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.892	~.280	3.480	BETA	.000	OFFSET .000
□	.923			MOUNT	1.000	PHI 225.000
◇	.954					

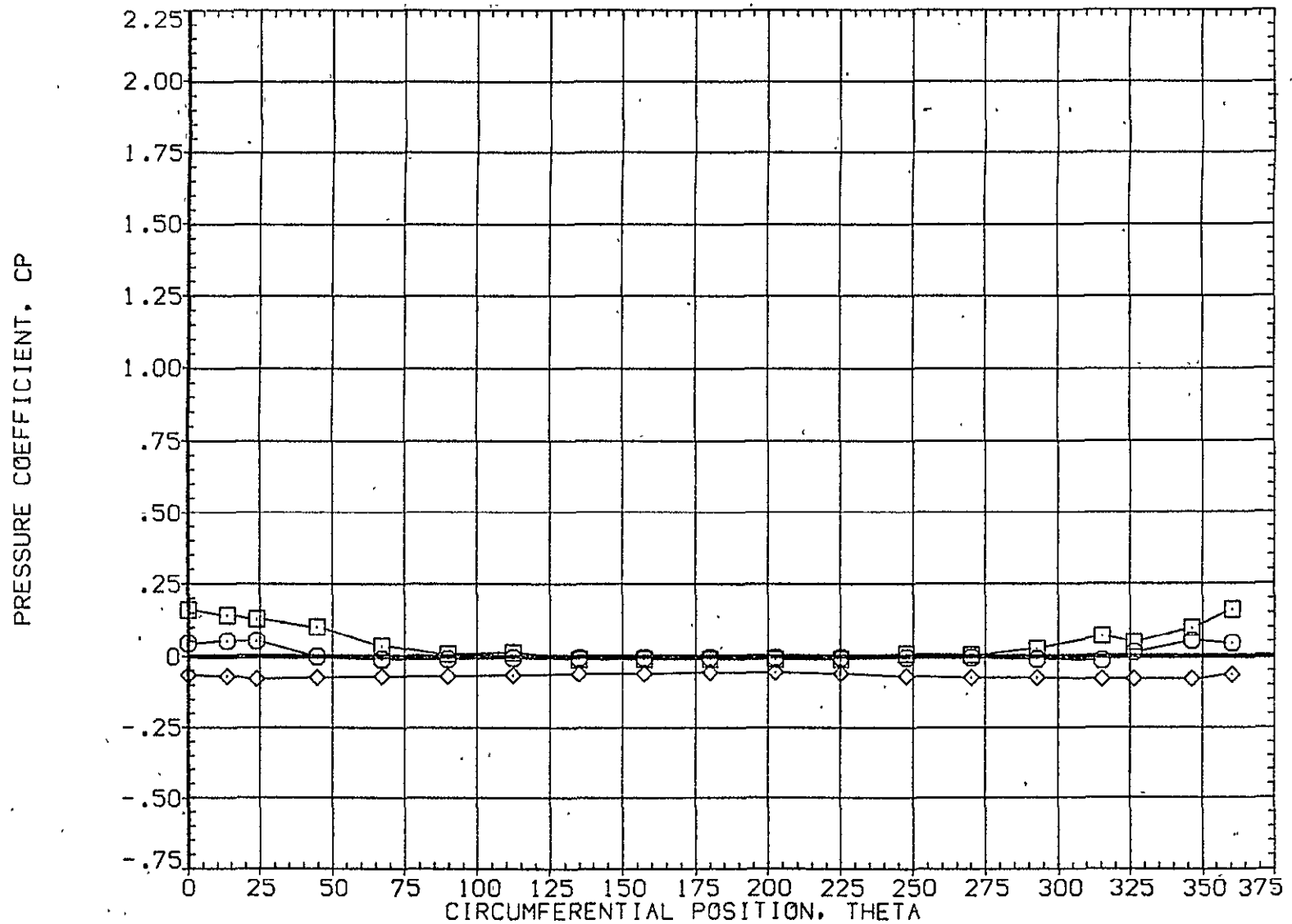


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A044)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	3.770	3.480	.000		.000
□	.108			1.000	PHI	225.000
◇	.162					

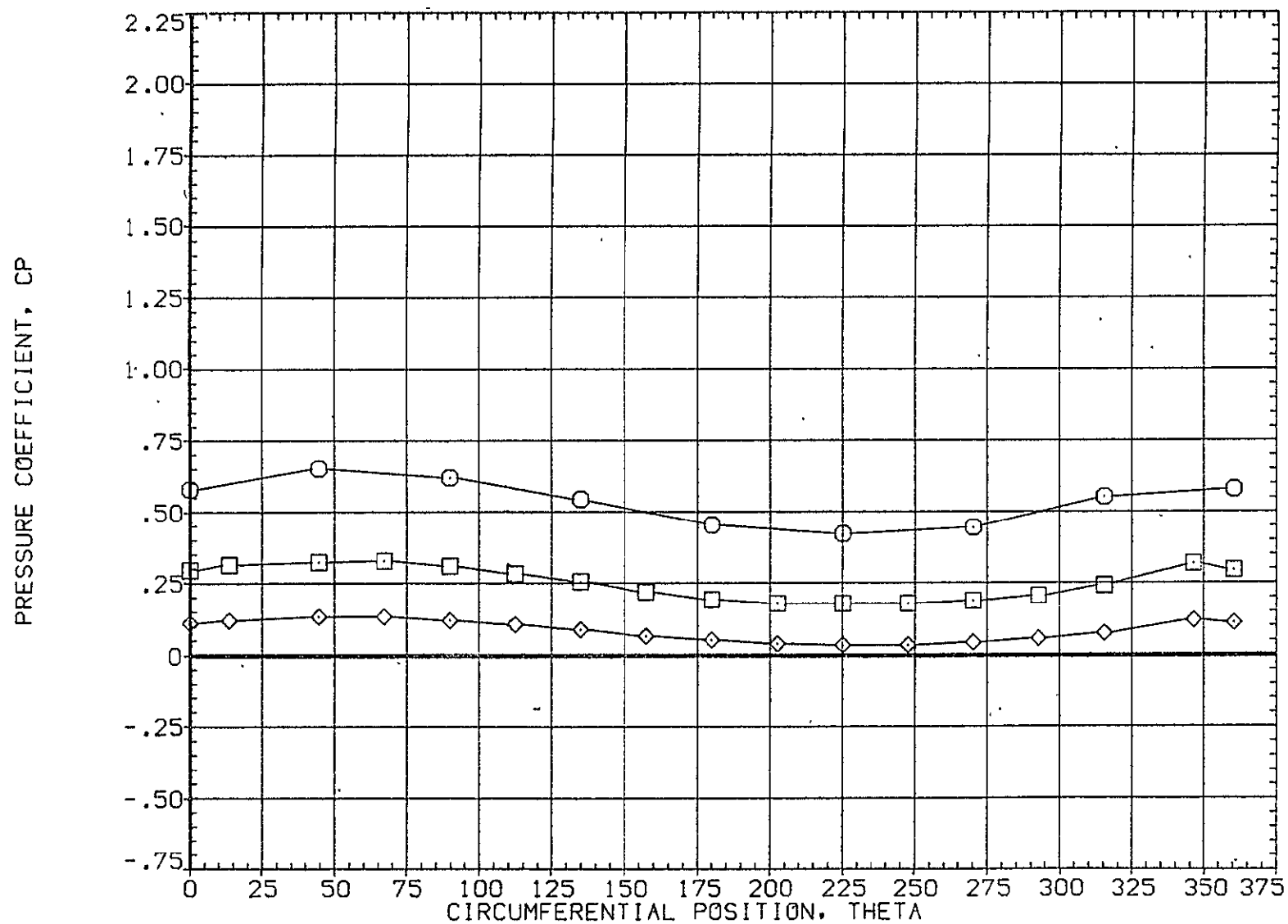


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	3.770	3.480			.000
□	.322			MOUNT	1.000	PHI 225.000
◇	.518					

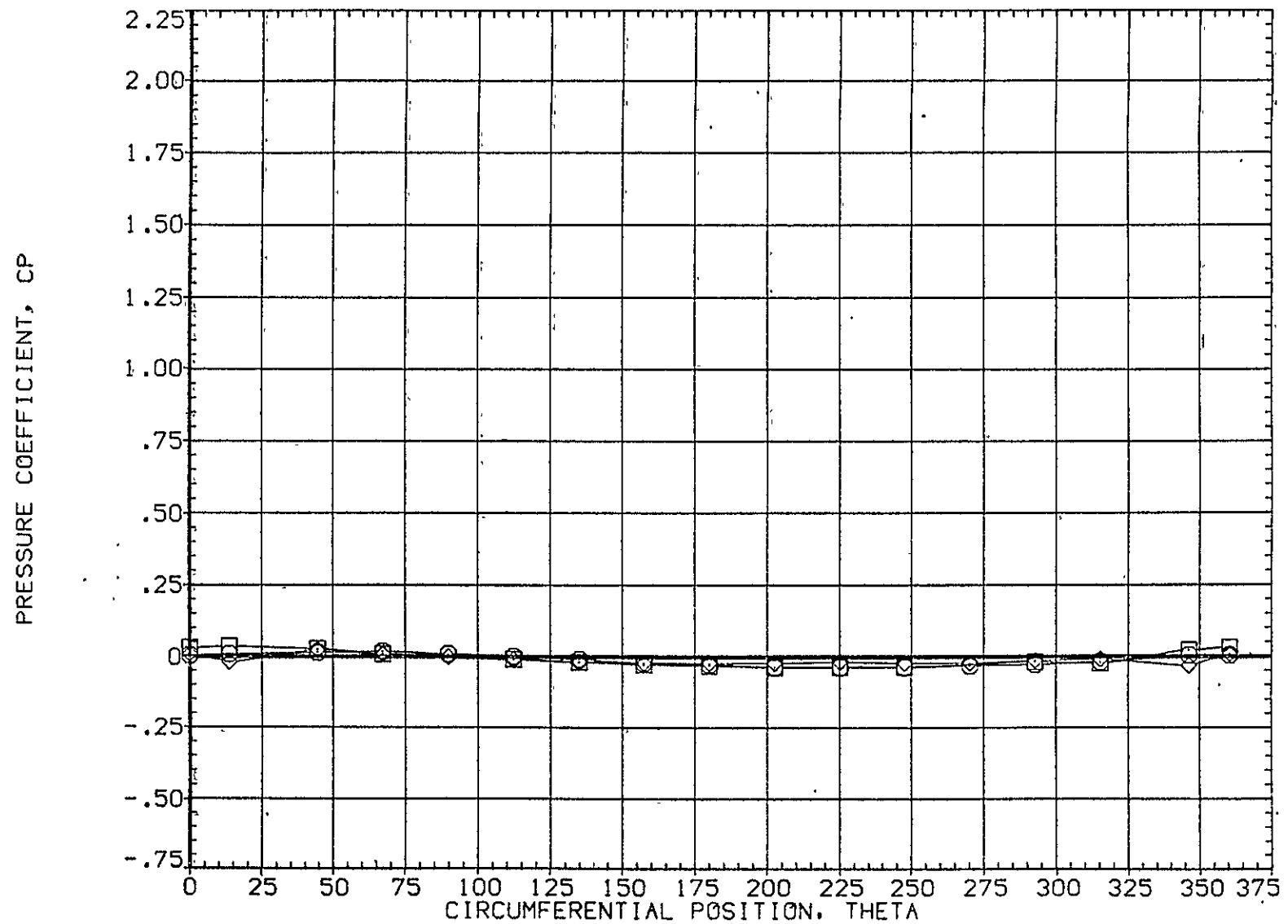


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A044)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	3.770	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	225.000
◇	.860						

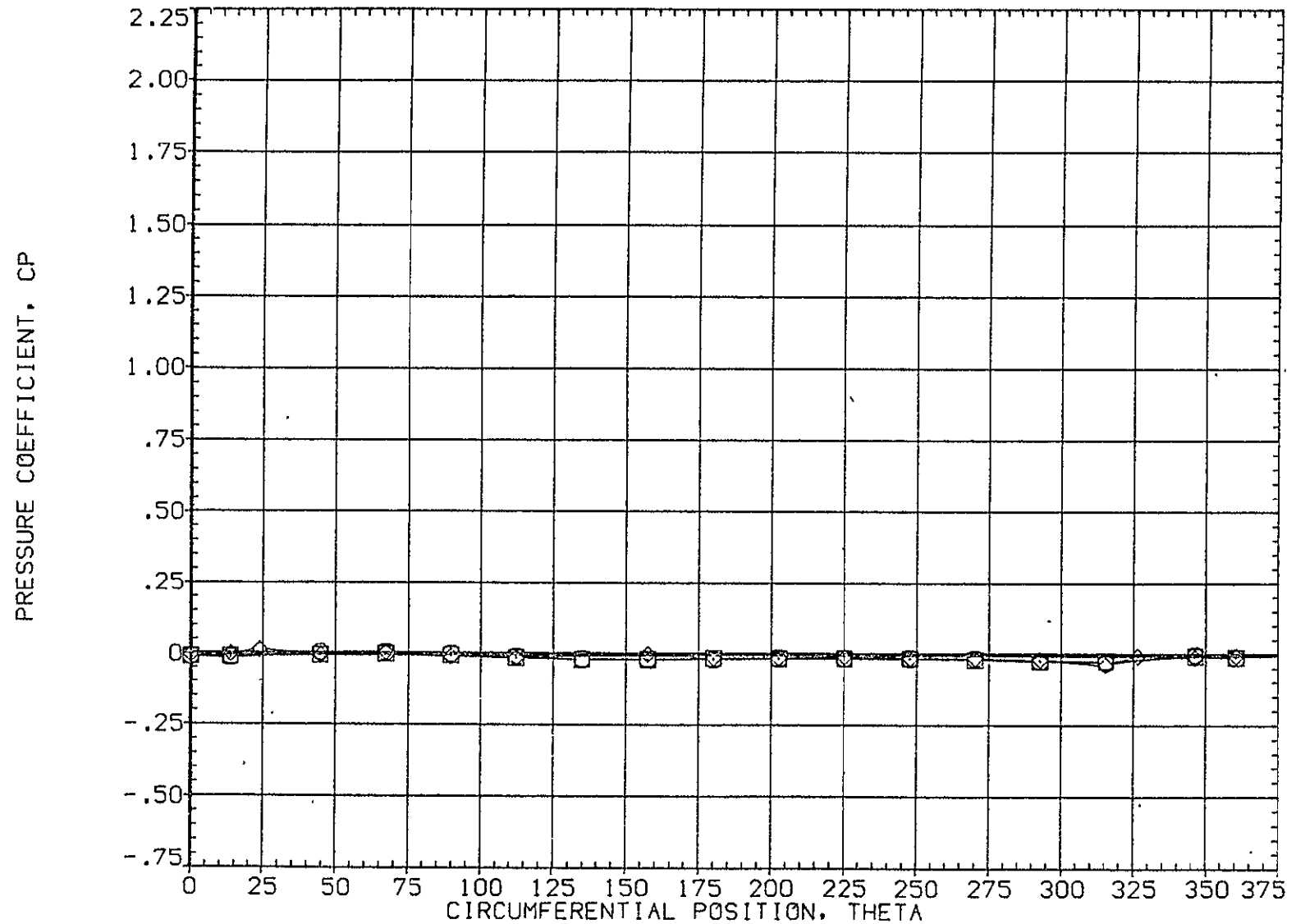


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	3.770	3.480	.000	.000	
□	.923			1.000	PHI	225.000
◇	.954					

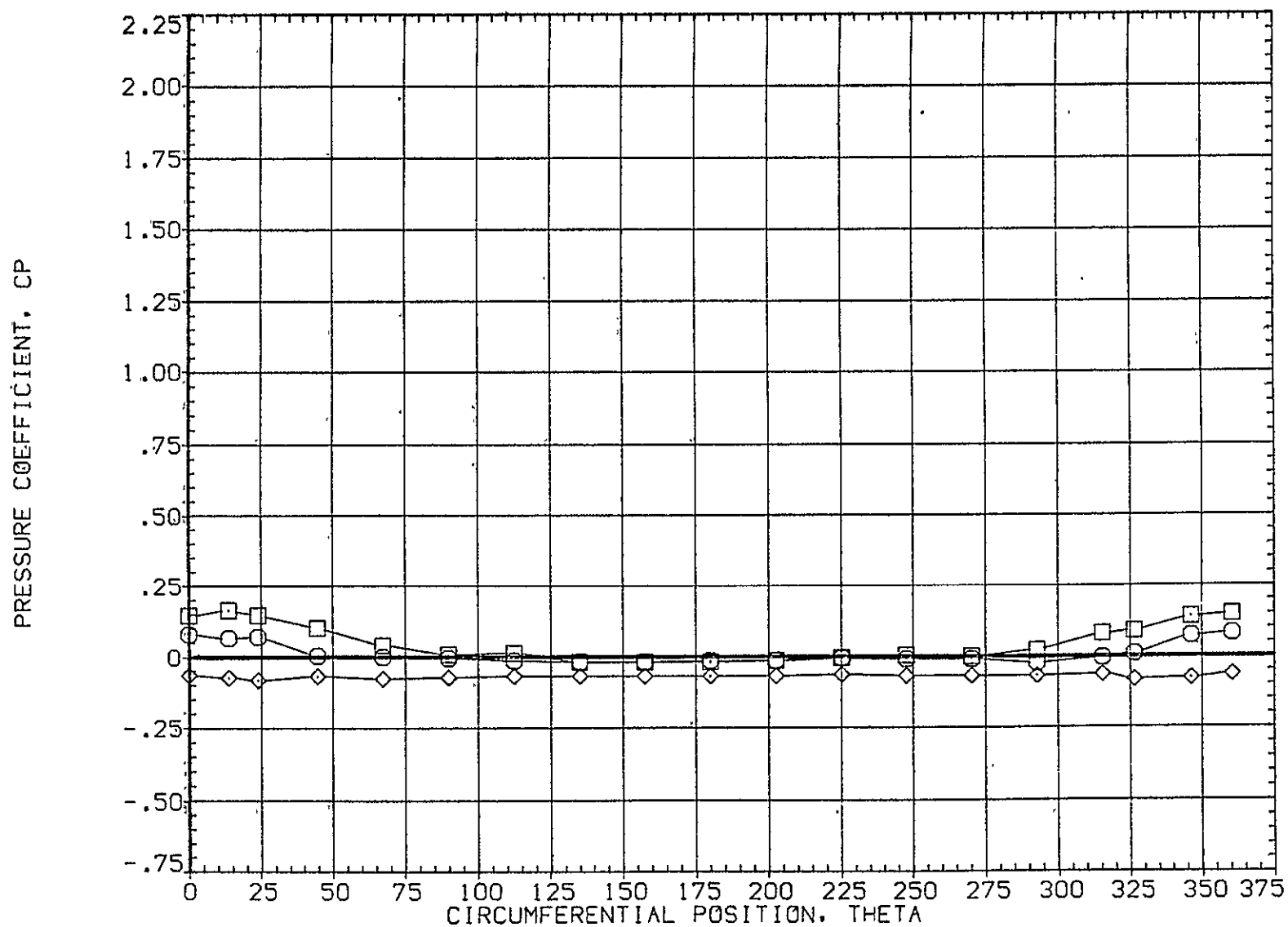


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.053	7.800	3.480	MOUNT	.000	PHI	225.000
□	.109				1.000		
◇	.162						

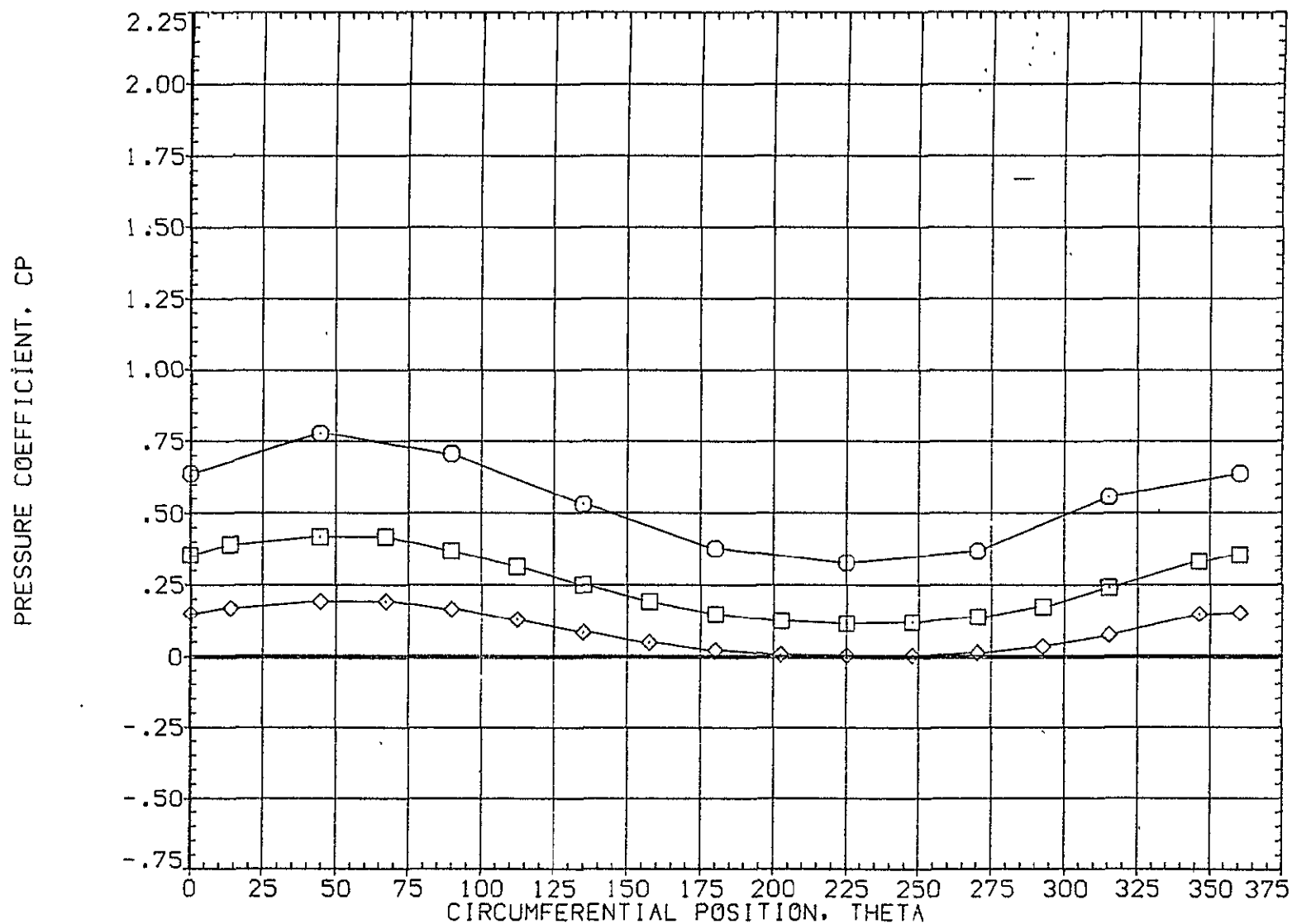


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	7.800	3.480	BETA	.000	OFFSET .000
□	.322			MOUNT	1.000	PHI 225.000
◇	.518					

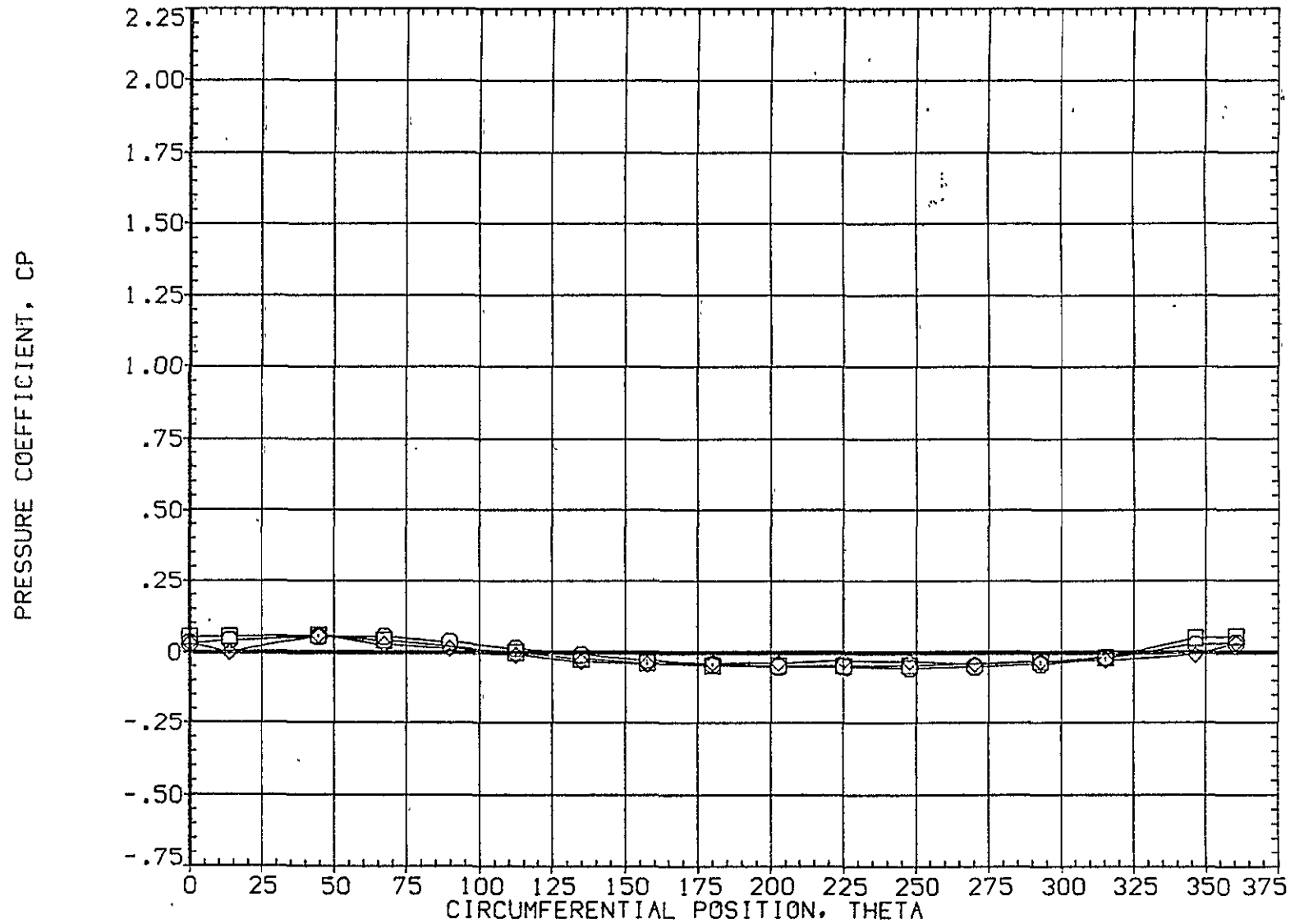


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A045)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.610	7.800	3.480	MOUNT	.000	PHI	225.000
□	.735				1.000		
◇	.860						

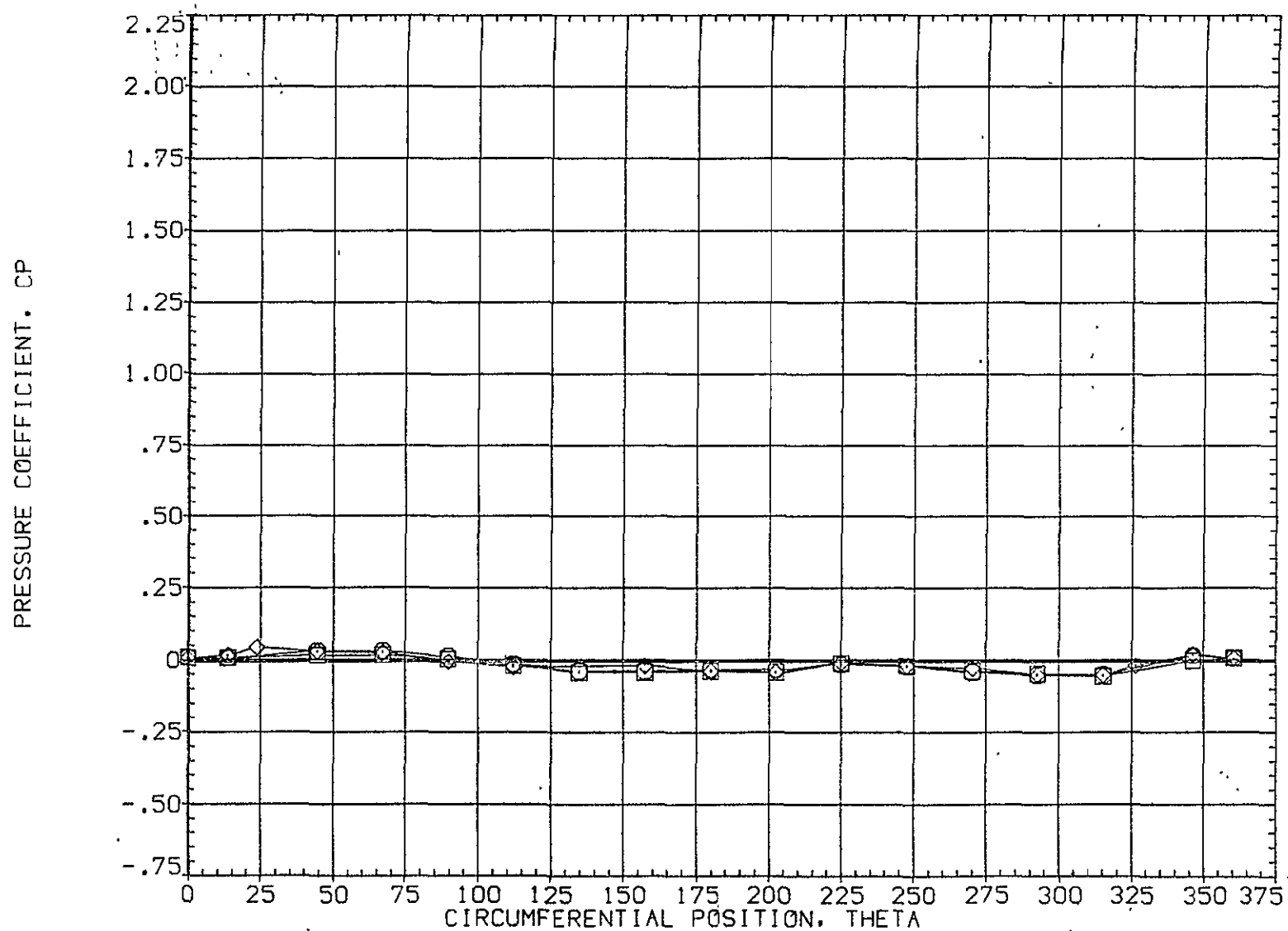


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.892	7.800	3.480	.000	OFFSET .000
□	.923			1.000	PHI 225.000
◇	.954				

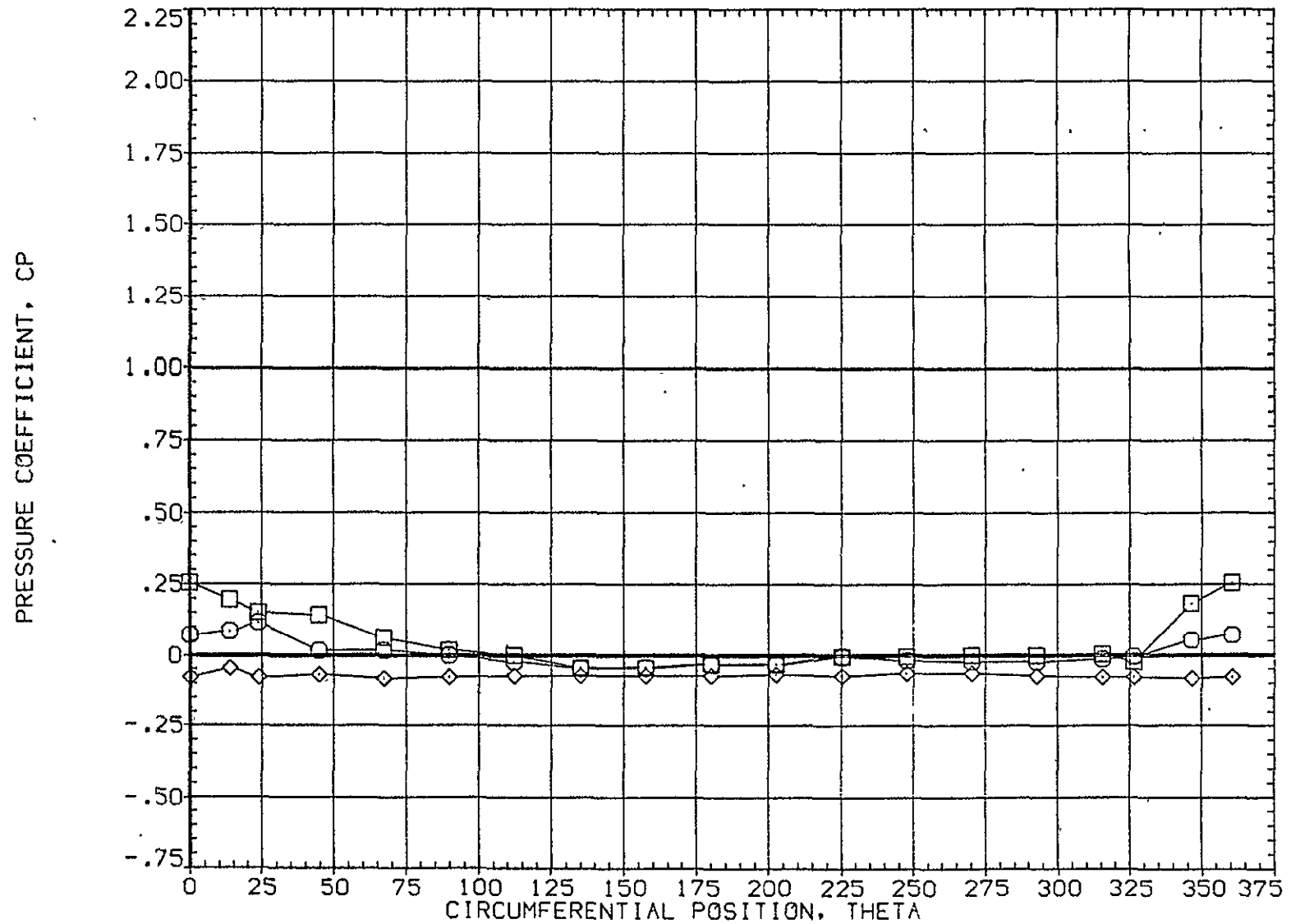


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A046)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	12.520	3.480	MOUNT	.000 OFFSET 20.000
□	.108				1.000 PHI 225.000
◇	.162				

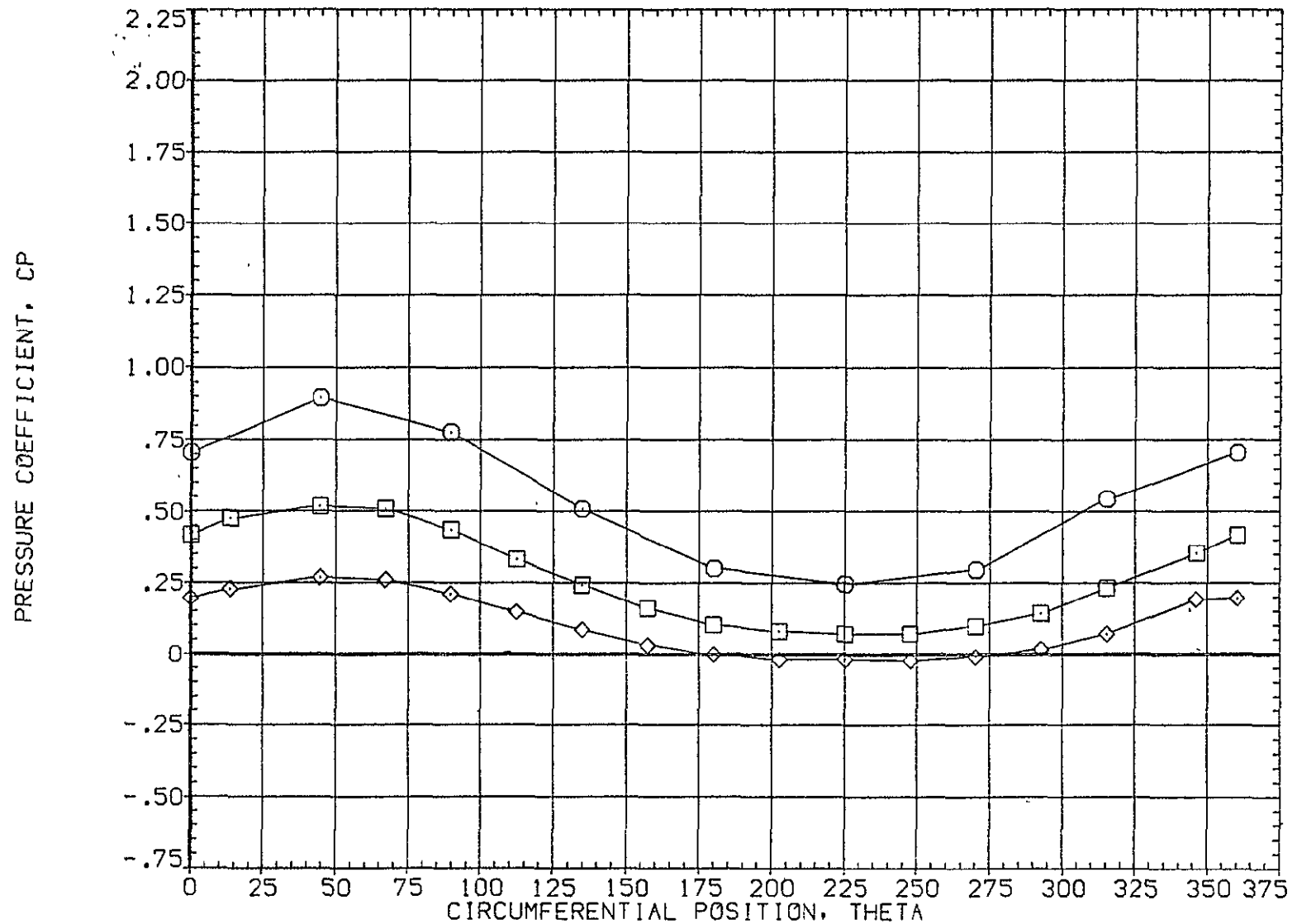


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	12.520	3.480	BETA	.000	OFFSET 20.000
□	.322			MOUNT	1.000	PHI 225.000
◇	.518					

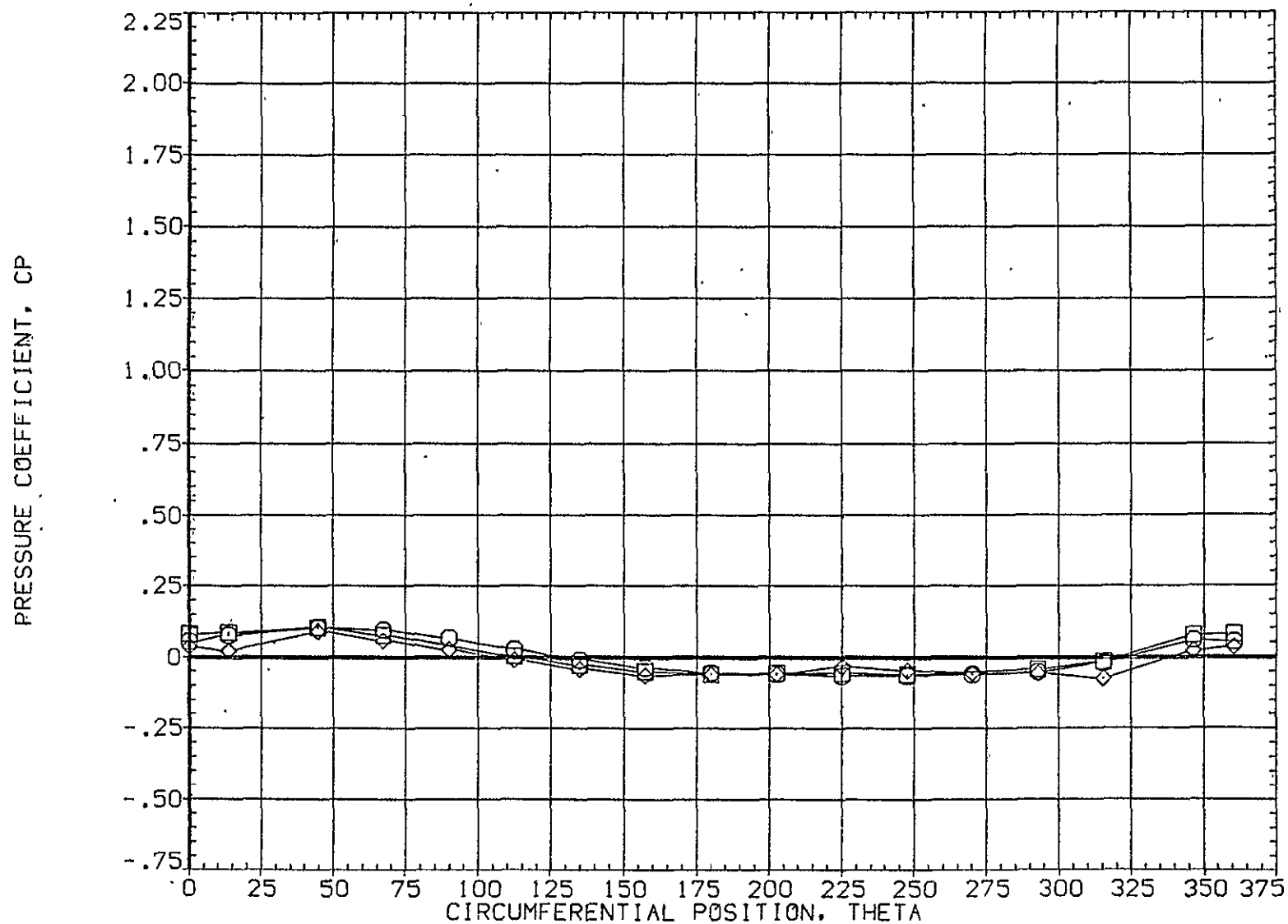


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A046)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	12.520	3.480	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	225.000
◇	.860						

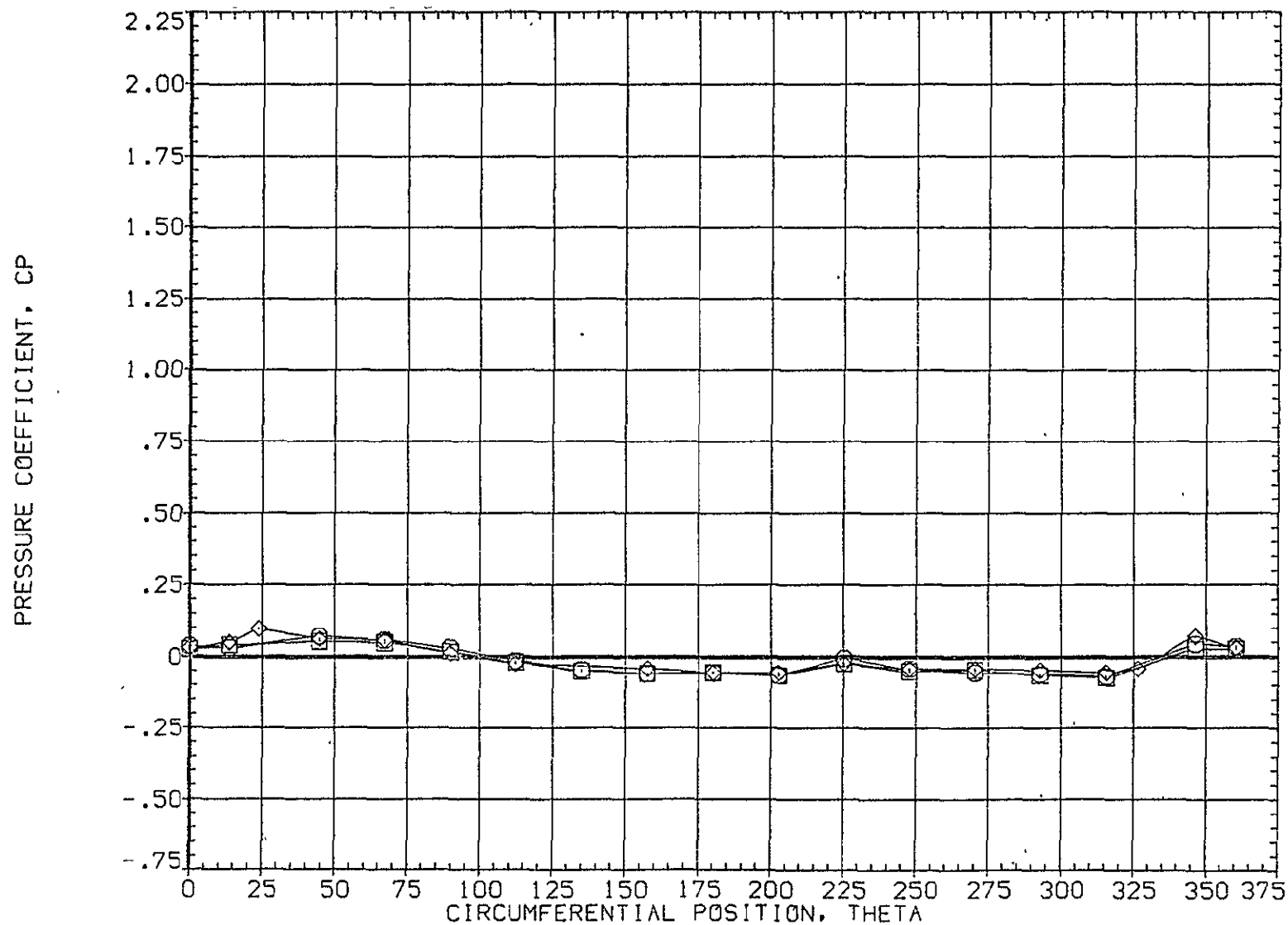


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.892	12.520	3.480	MOUNT	.000	PHI	225.000
□	.923						
◇	.954						

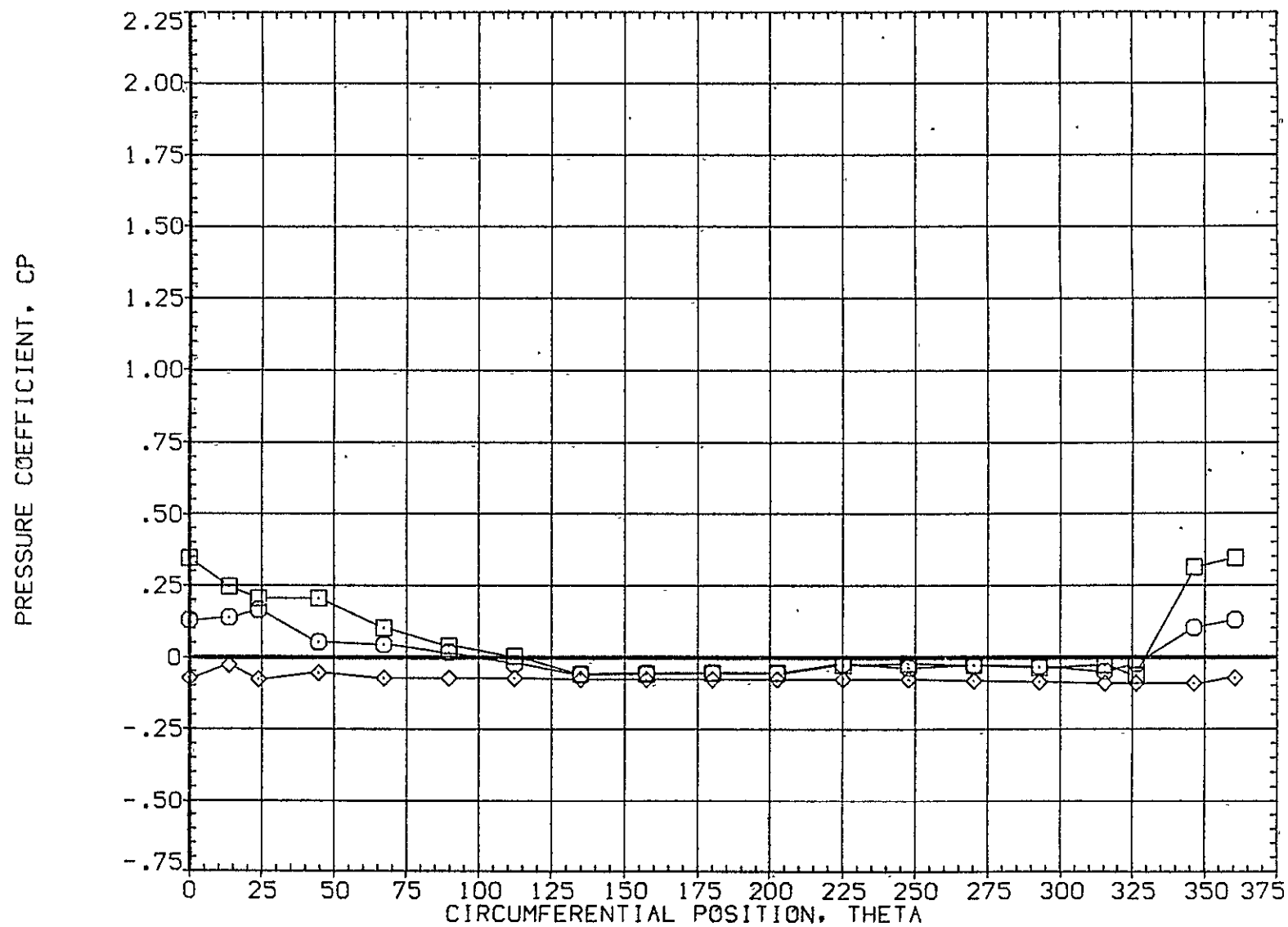


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A047)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
○	.055	16.560	3.480	MOUNT	1.000	PHI	225.000
□	.108						
◇	.162						

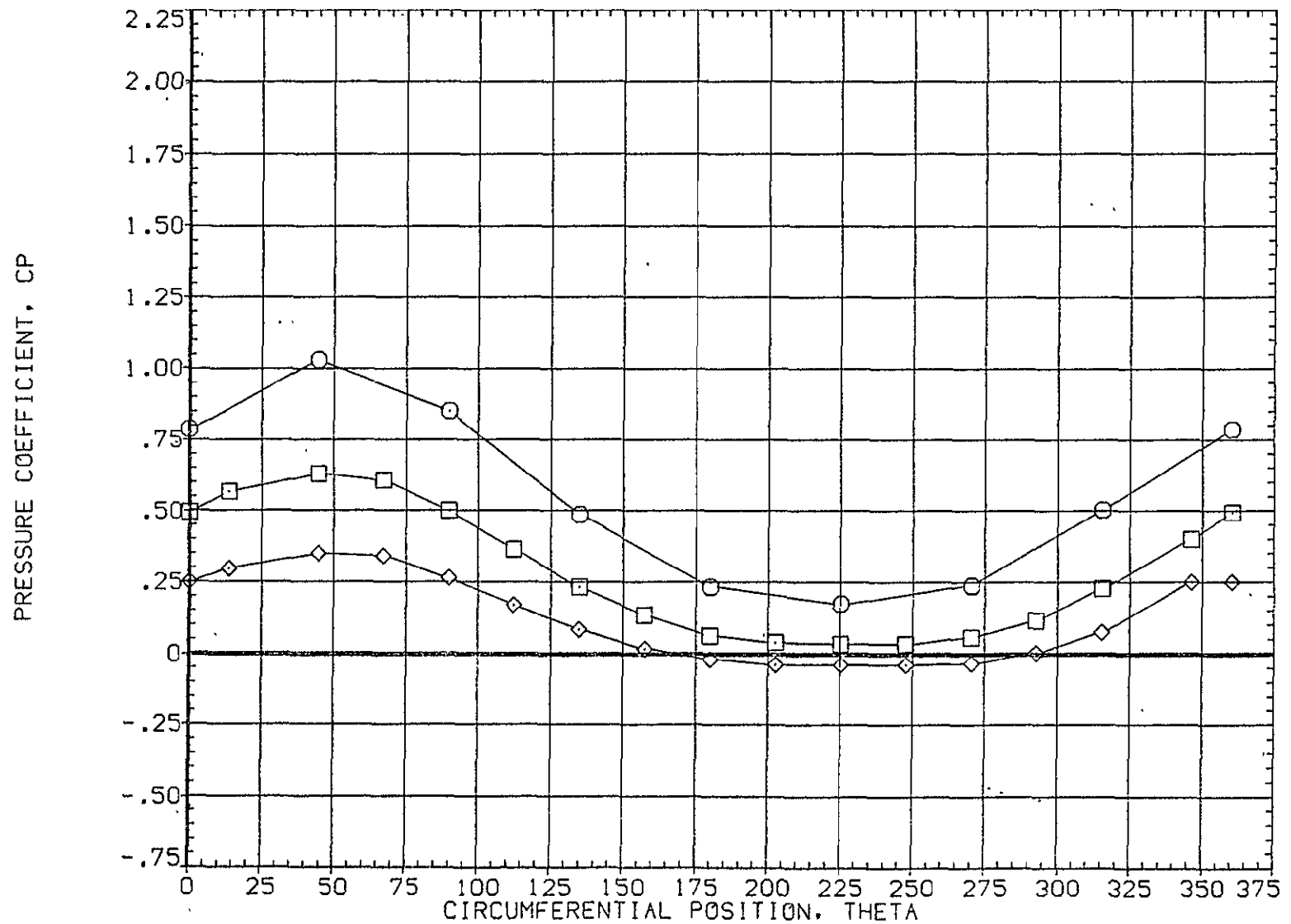


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	16.560	3.480	BETA	.000	OFFSET 20.000
□	.322			MOUNT	1.000	PHI 225.000
◇	.518					

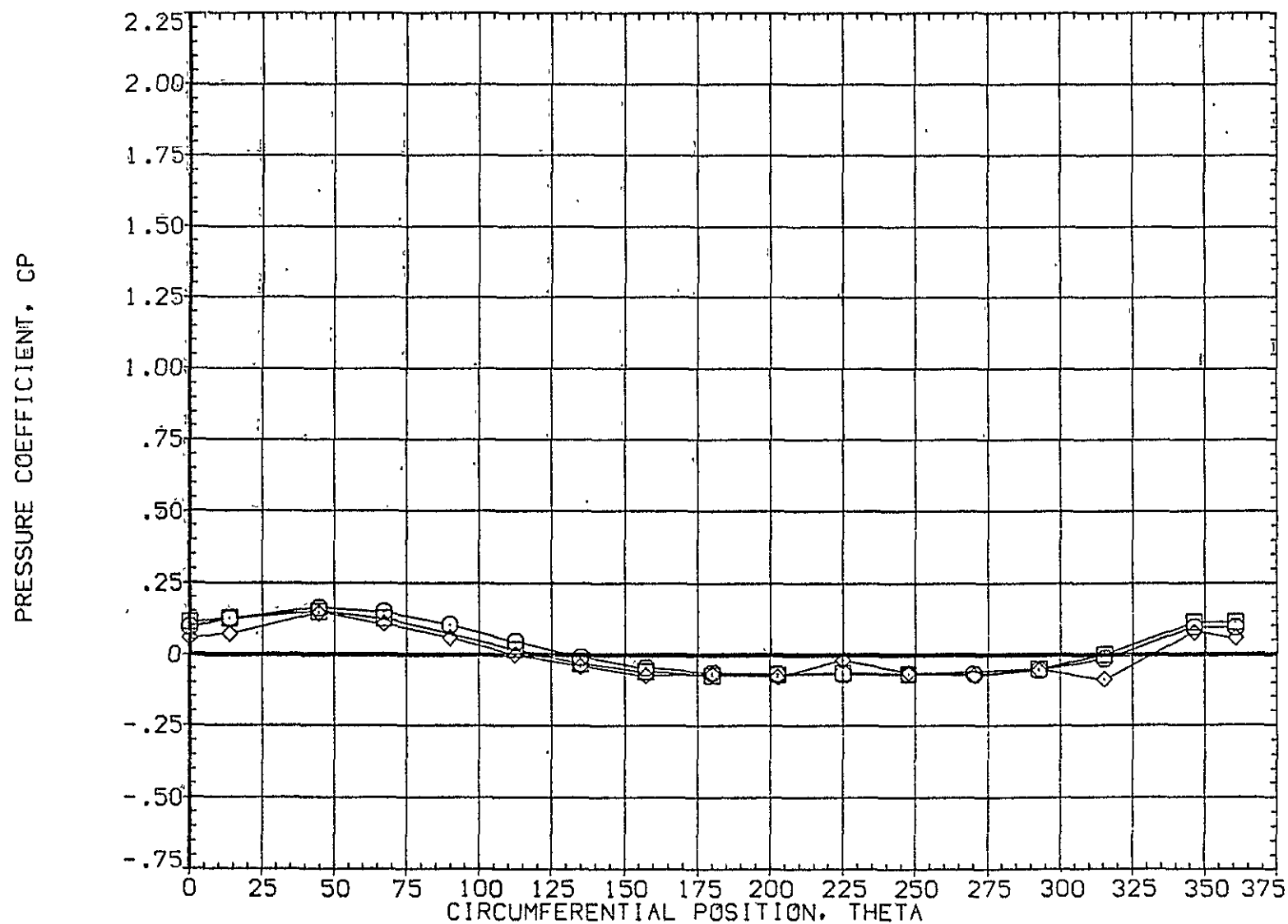


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A047)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	16.560	3.480	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	225.000
◇	.860						

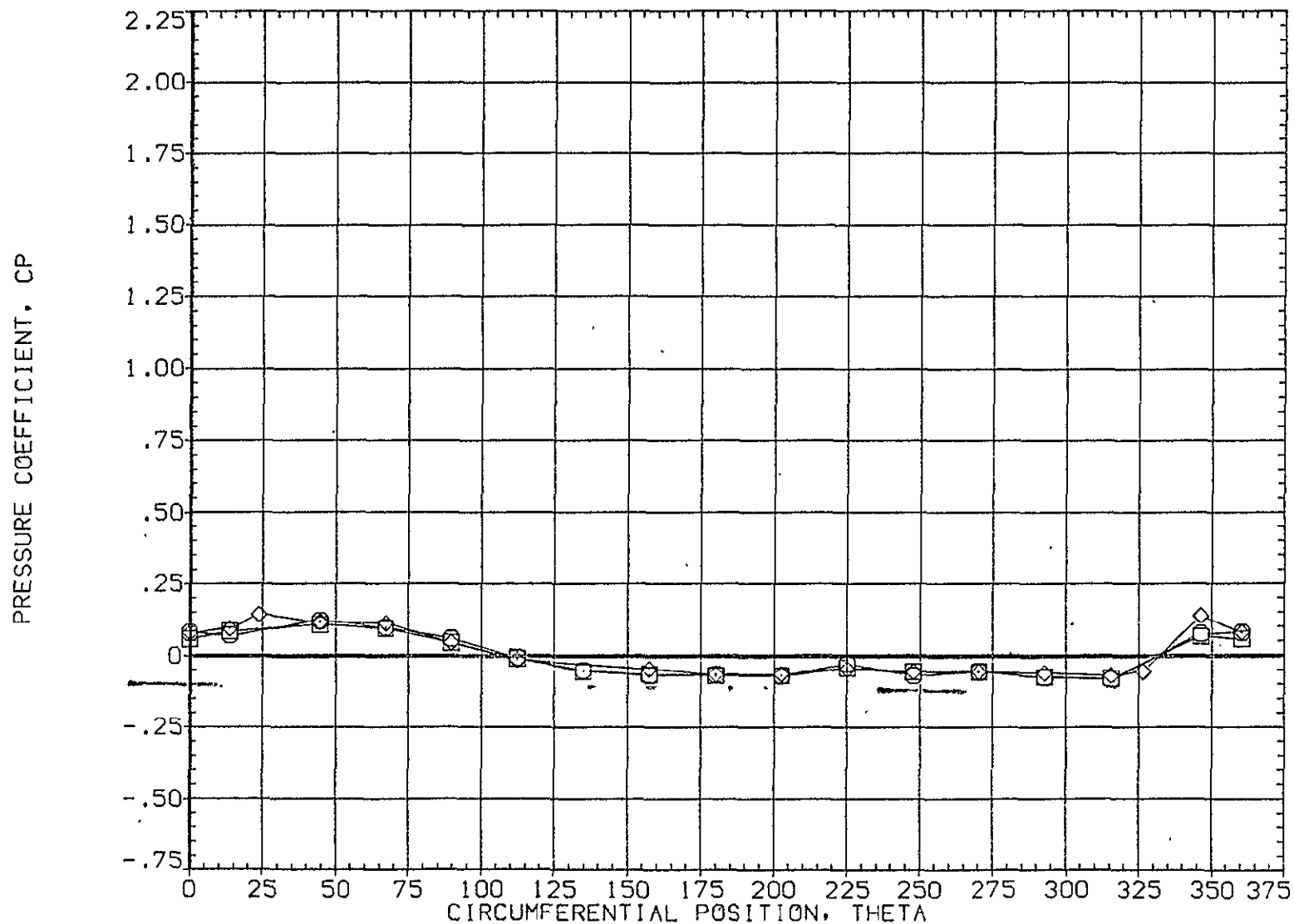


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 225.000
○	.892	16.560	3.480			
□	.923					
◇	.954					

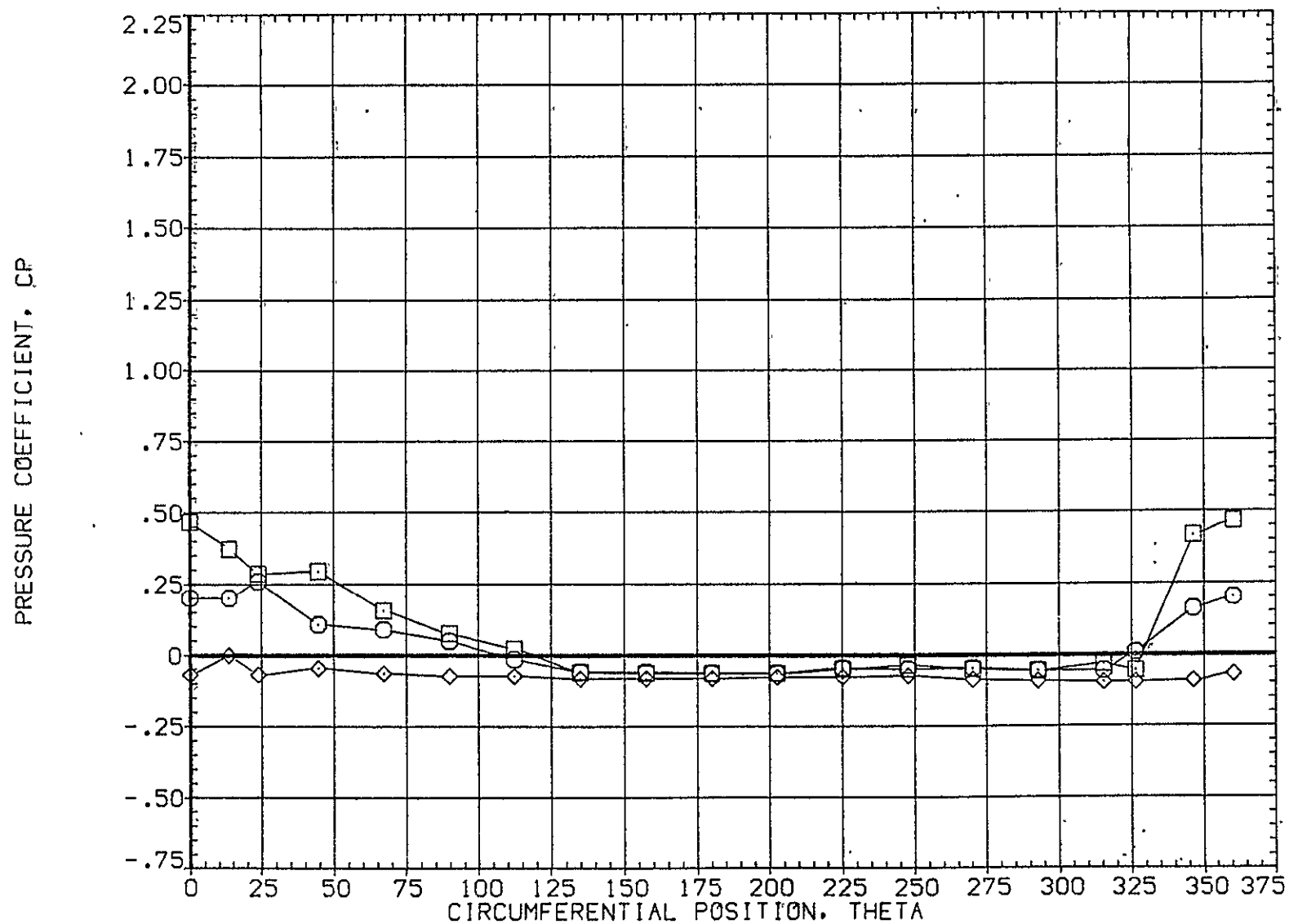


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
○	.055	20.610	3.480	MOUNT	1.000	PHI	225.000
□	.108						
◇	.162						

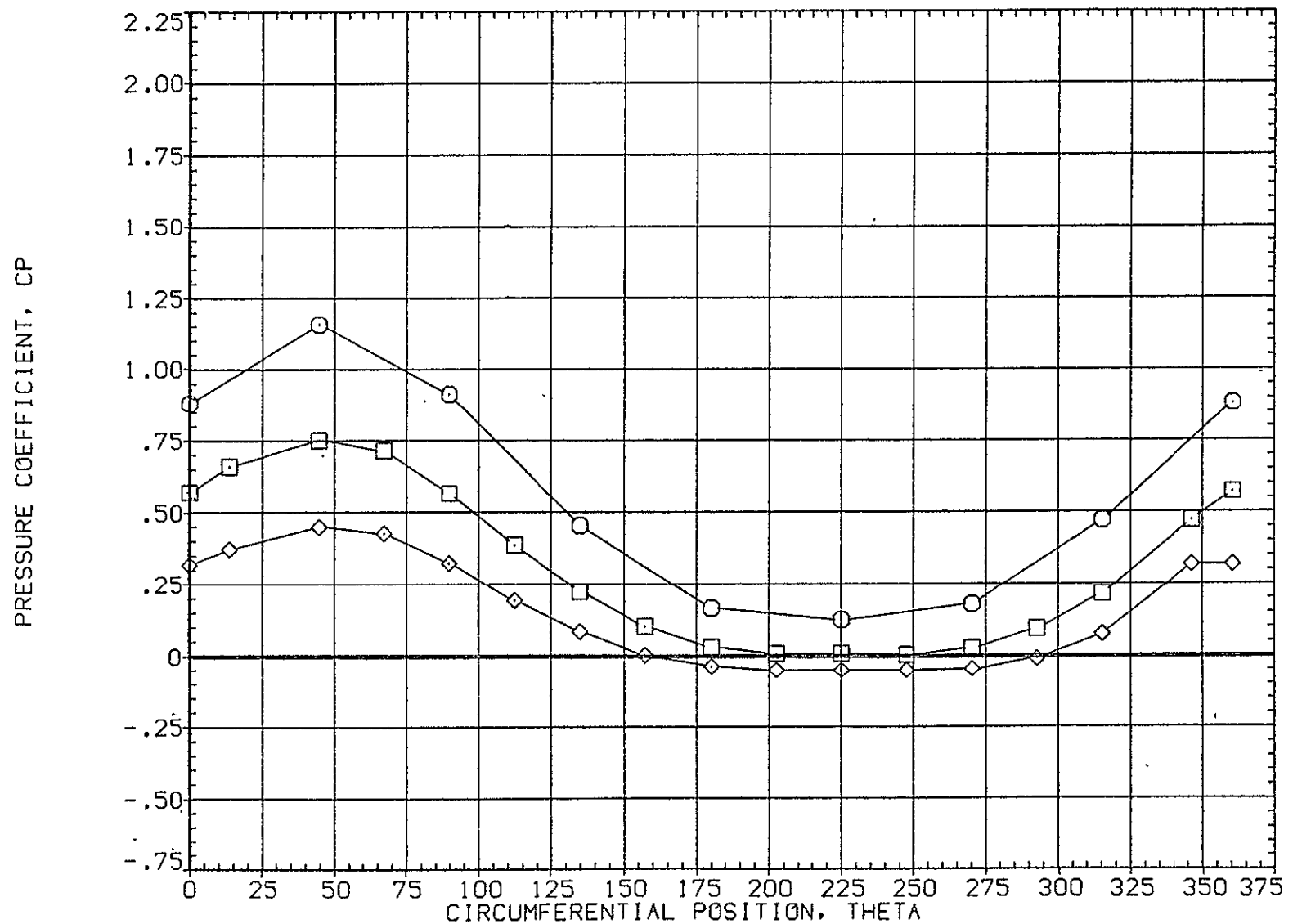


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.610	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	225.000

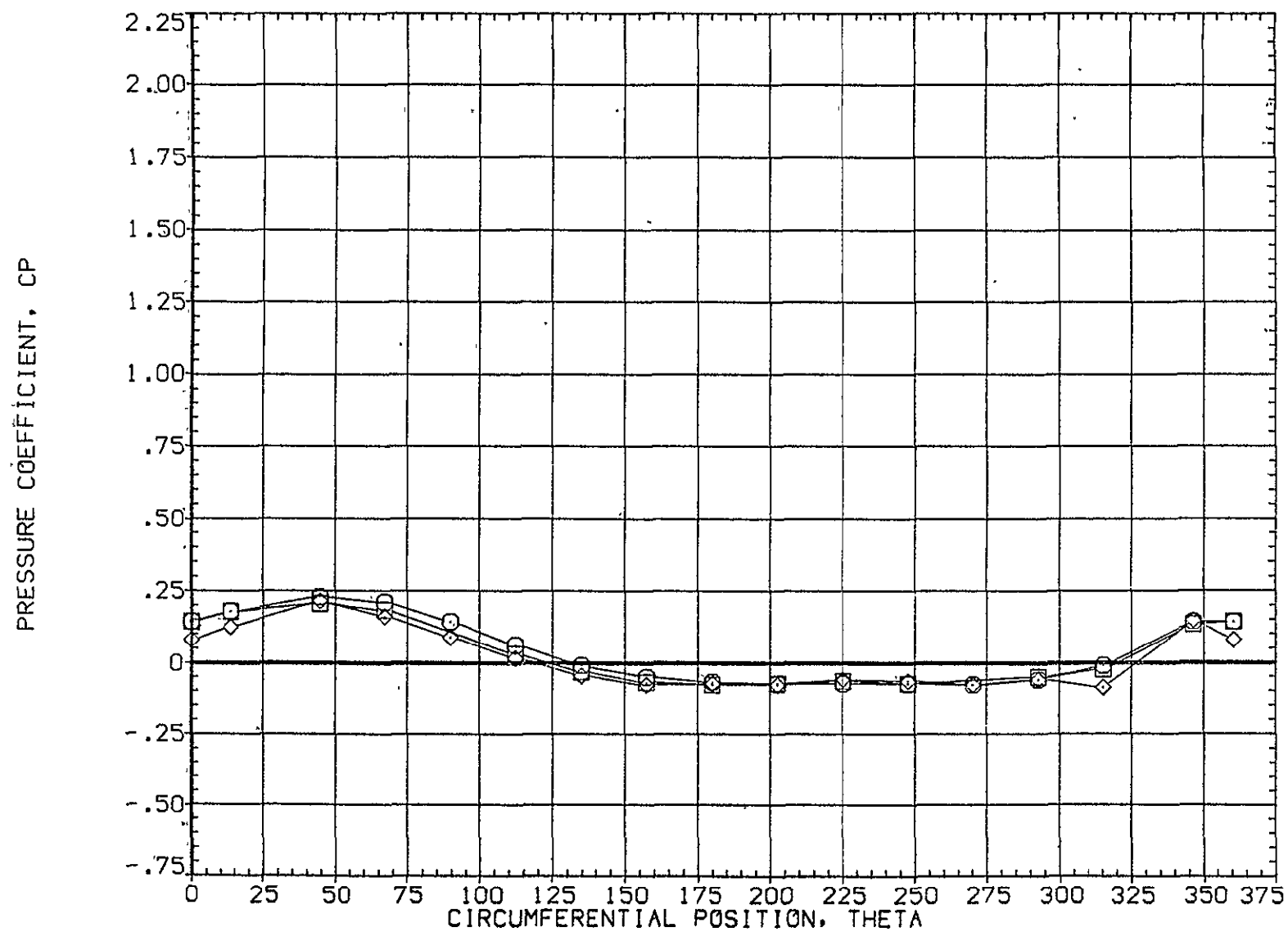


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A048)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	20.610	3.480	MOUNT	.000	PHI	225.000
□	.735				1.000		
◇	.860						

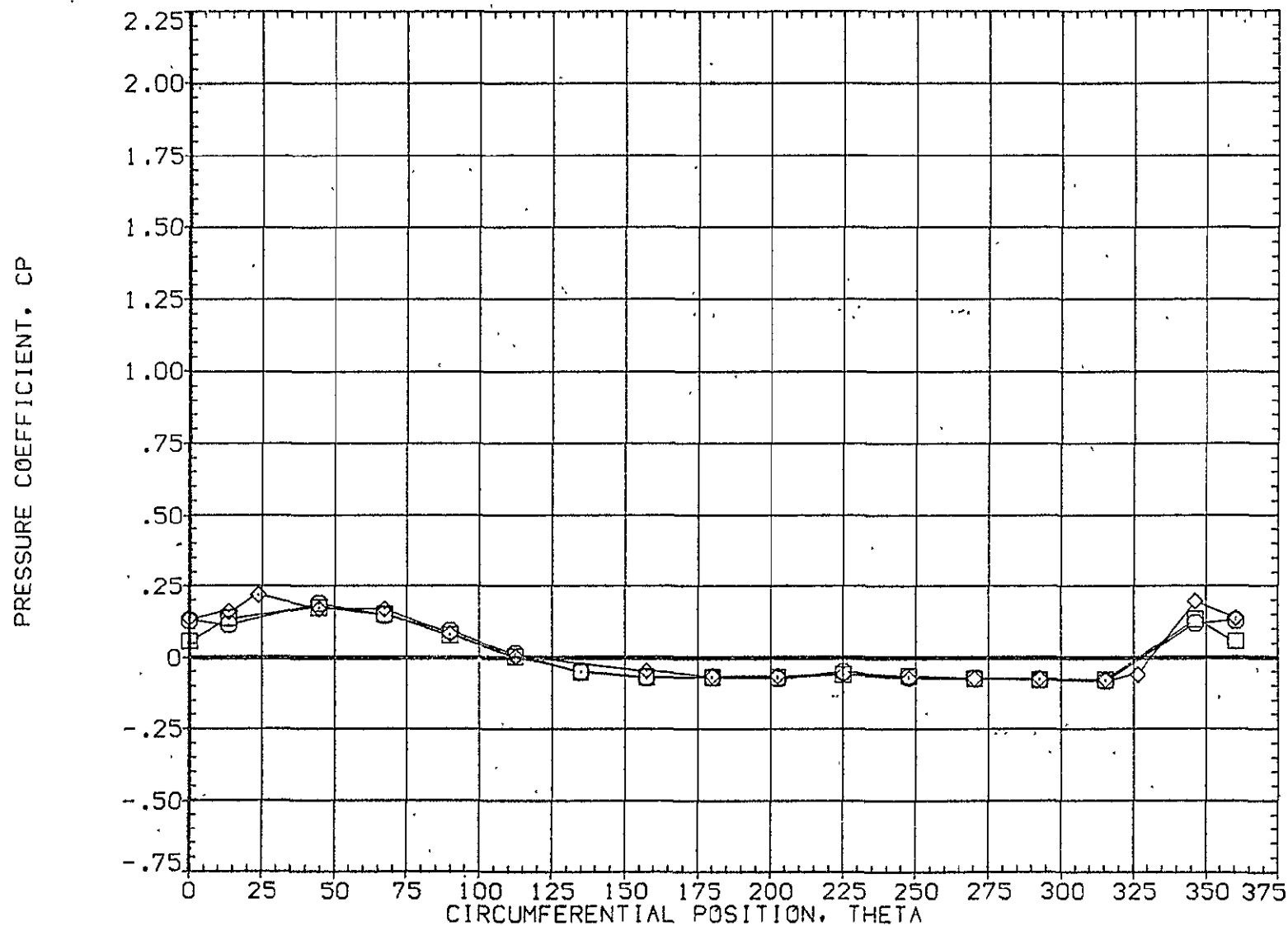


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

ALPHA

MACH

.892
.923
.954

20.610

3.480

BETA
MOUNT

PARAMETRIC VALUES

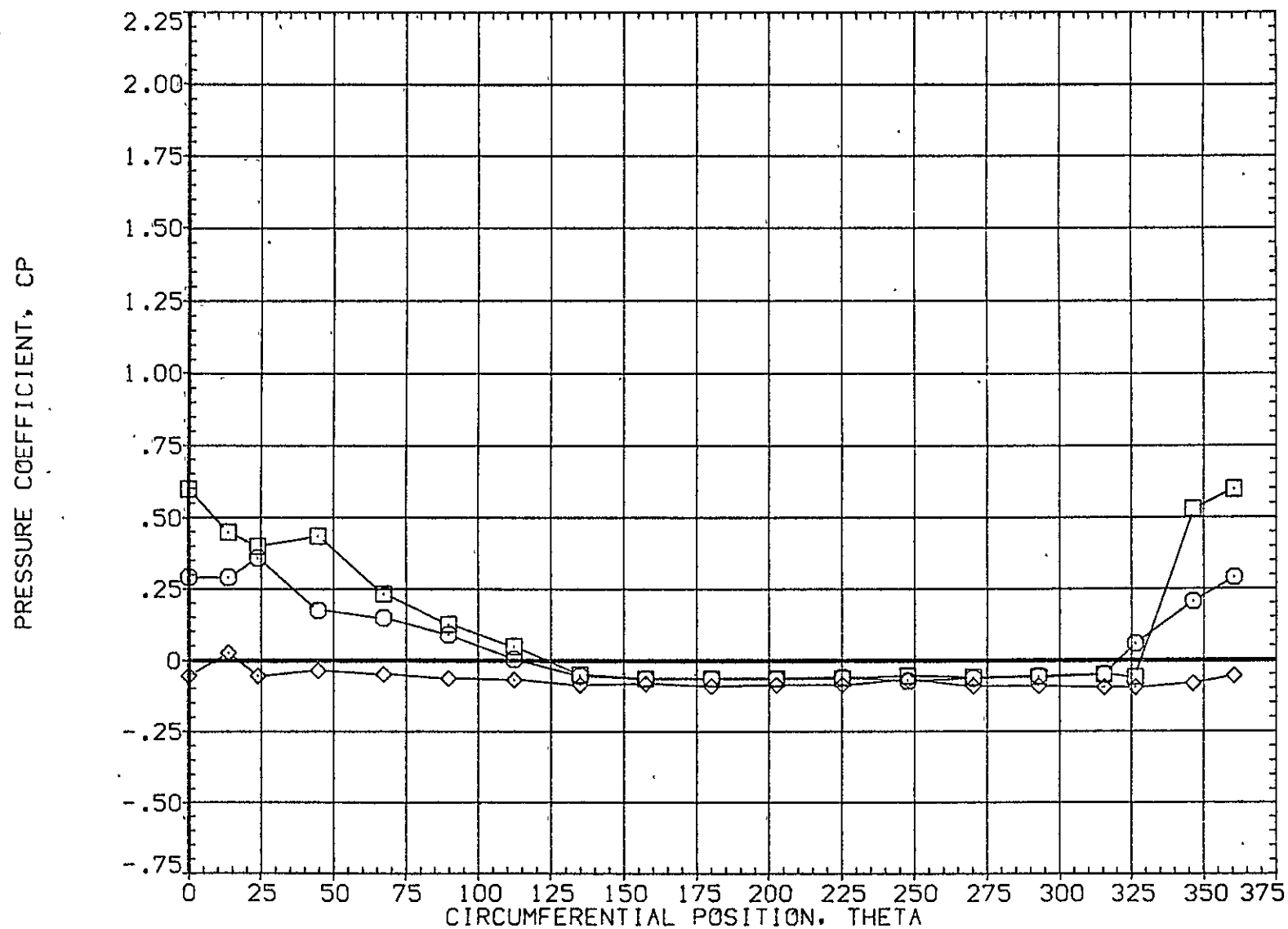
.000
1.000OFFSET
PHI20.000
225.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A049)

SYMBOL
◇ □ ○X/LB
.055
.108
.162ALPHA
24.660MACH
3.480BETA
MOUNT

PARAMETRIC VALUES

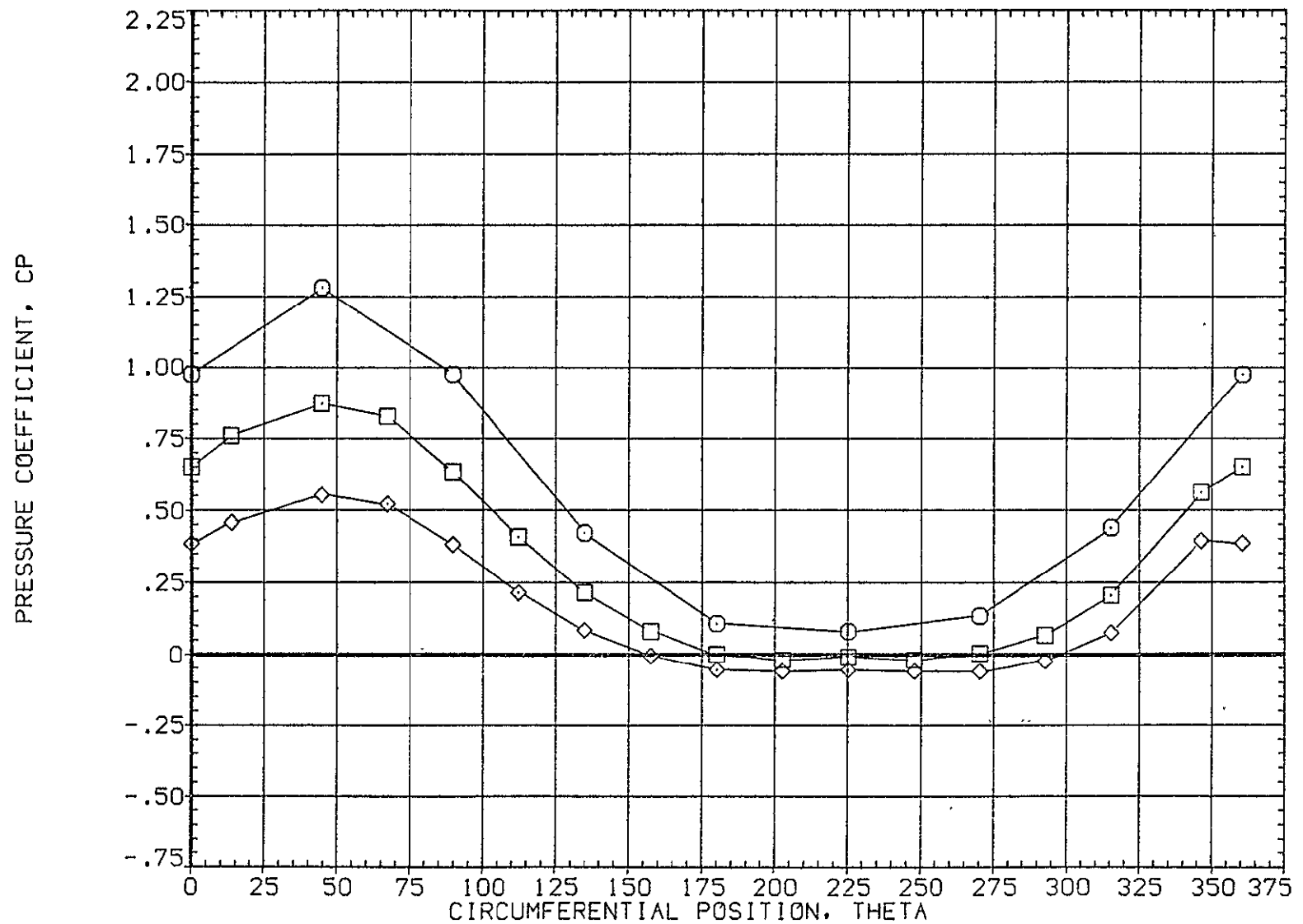
.000
1.000OFFSET
PHI20.000
225.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA MOUNT	.000 1.000	OFFSET PHI	20.000 225.000
○	.216	24.660	3.480				
□	.322						
◇	.518						

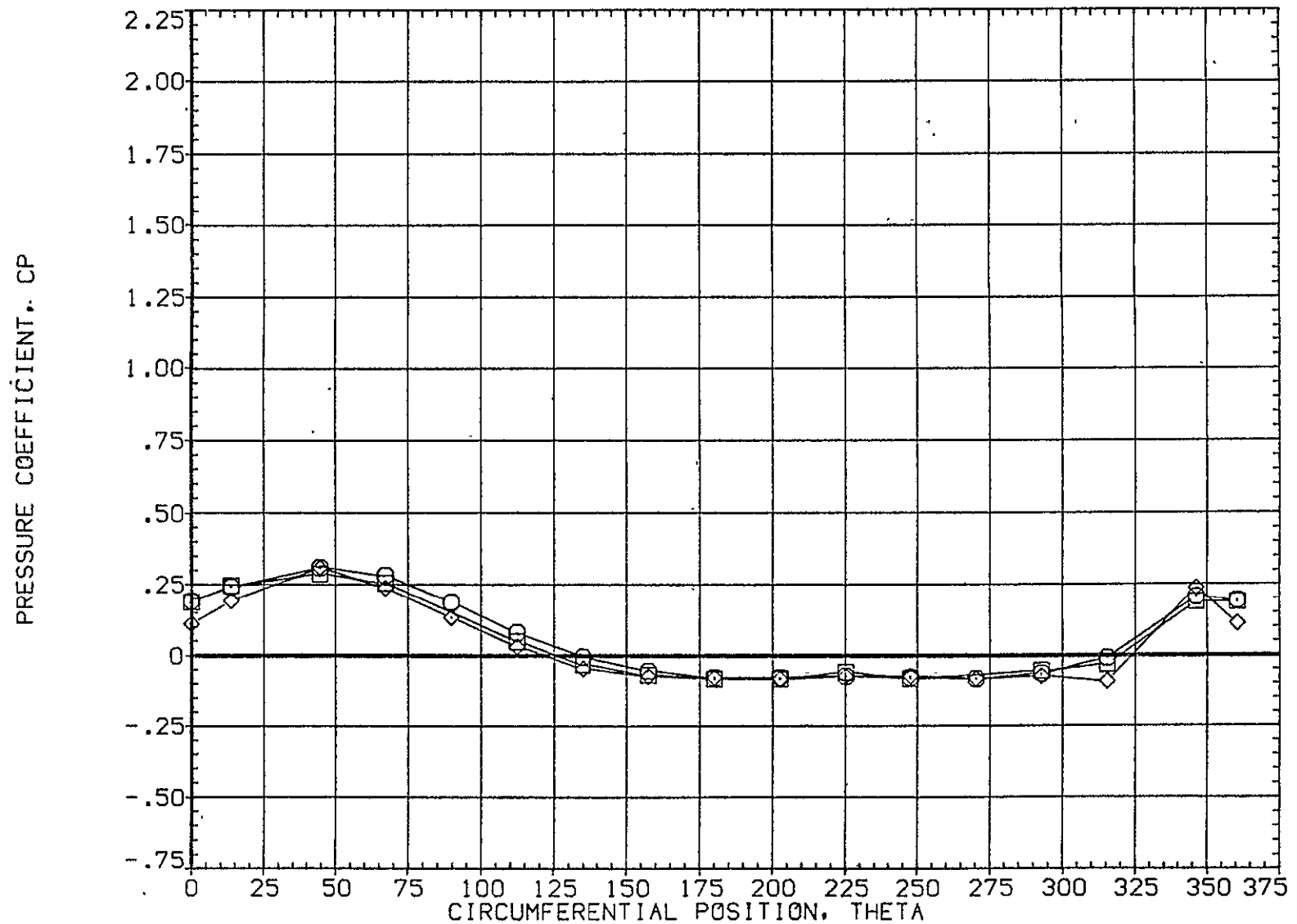


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A049)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	24.660	3.480	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	225.000
◇	.860						

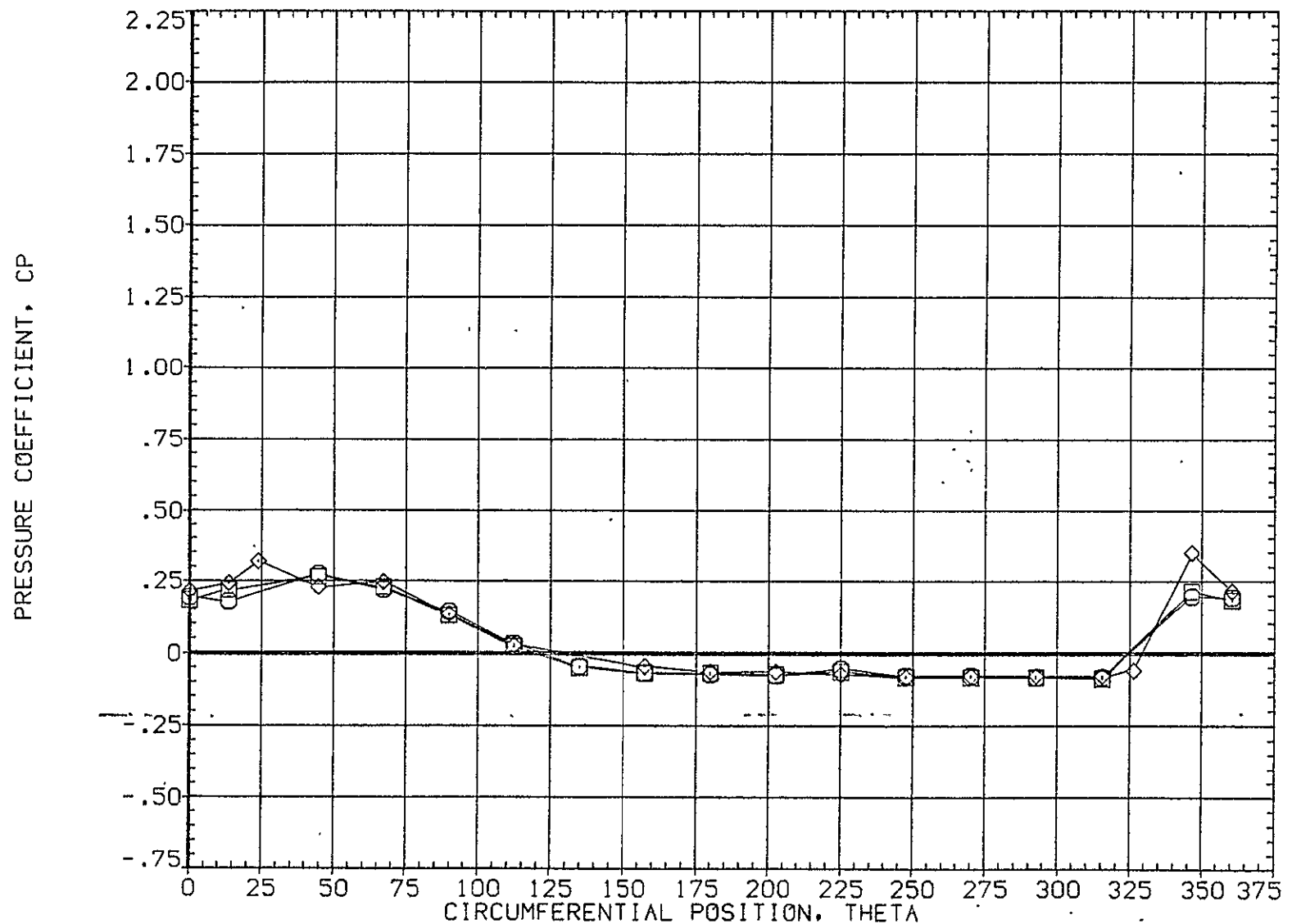


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	24.660	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	OFFSET	20,000
MOUNT	PHI	225.000
	1.000	

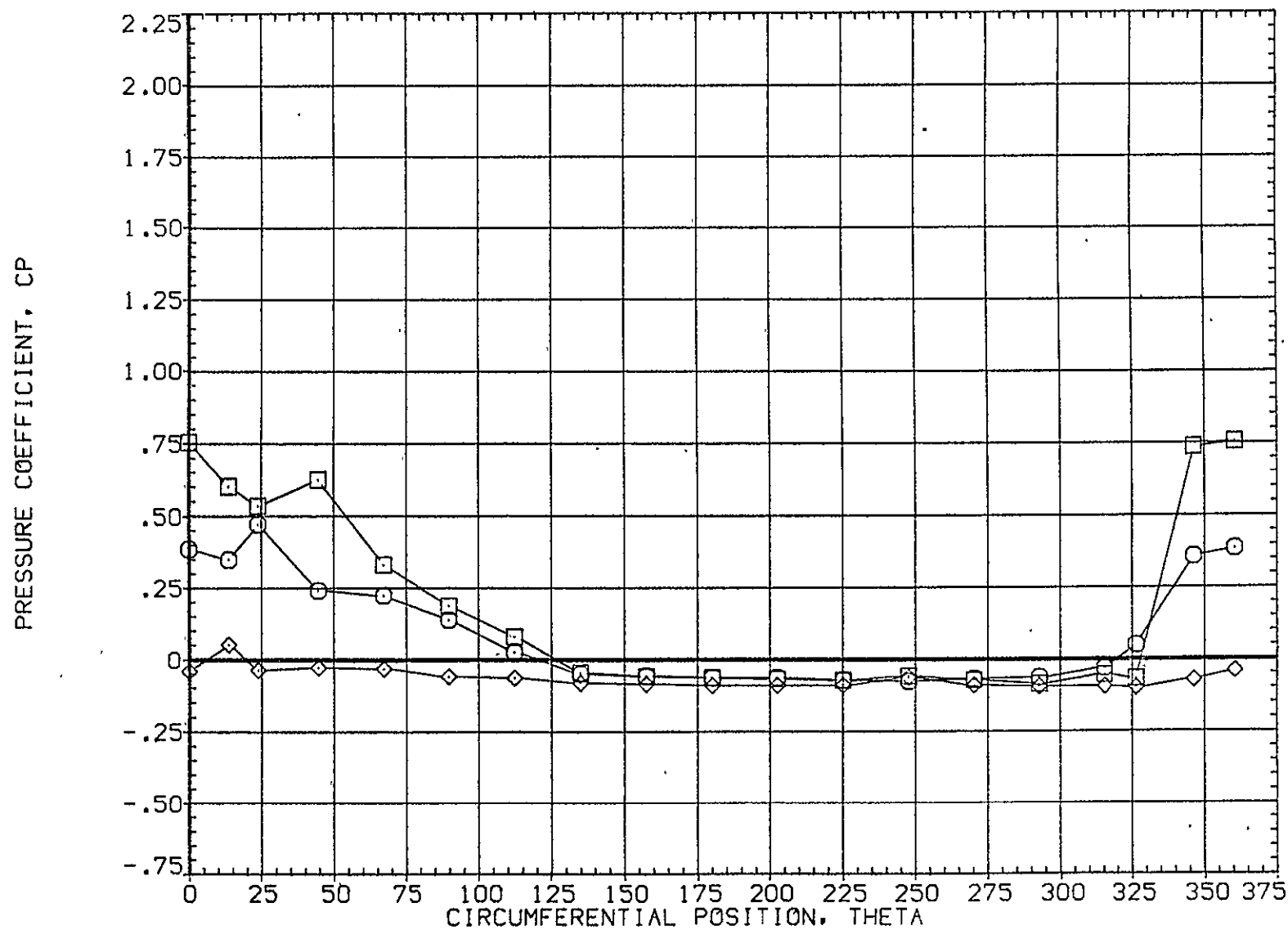


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A050)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	28.720	3.480	MOUNT	.000		20.000
□	.108				1.000		225.000
◇	.162						

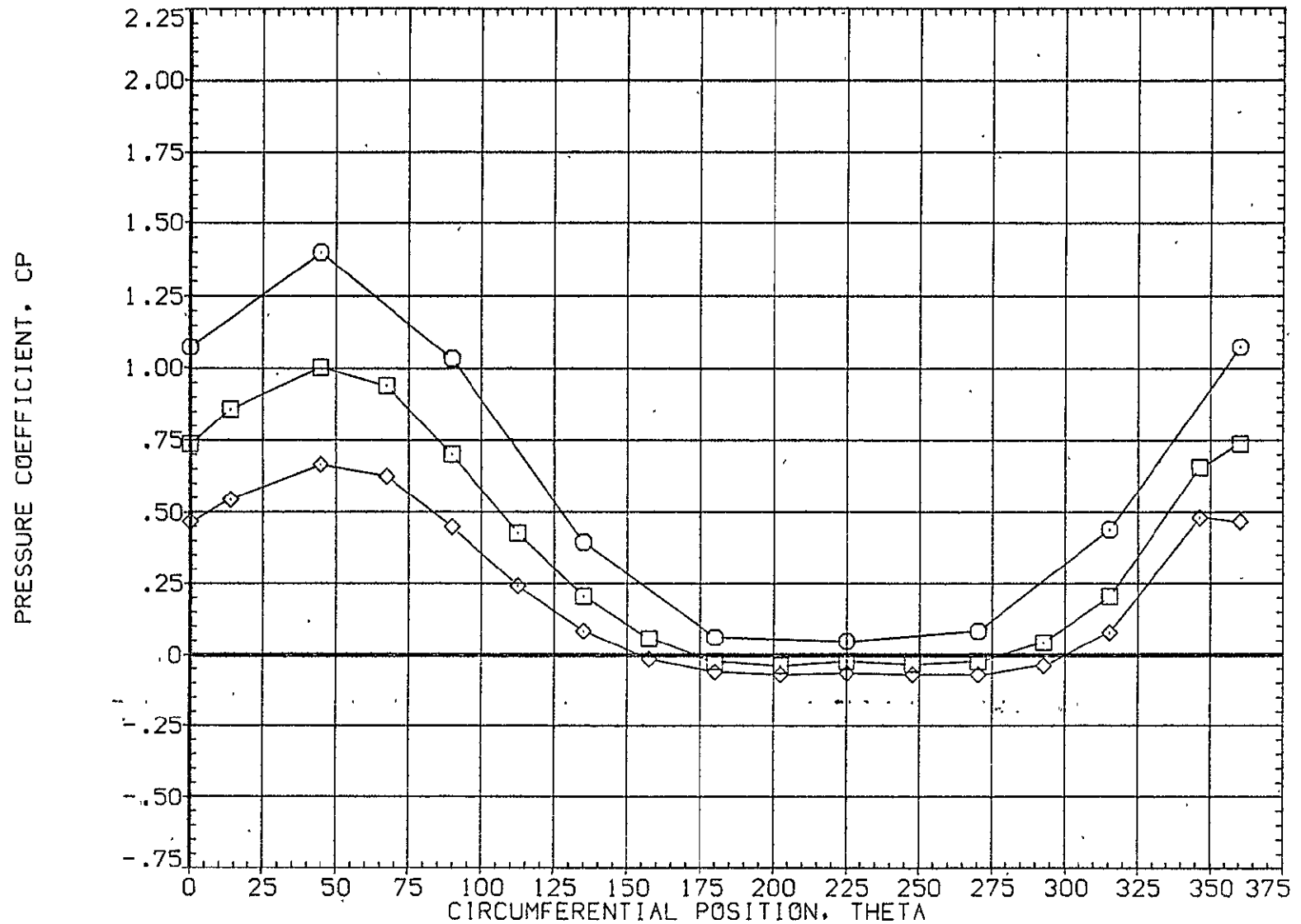


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

○
□
◇.216
.322
.518

28.720

3.480

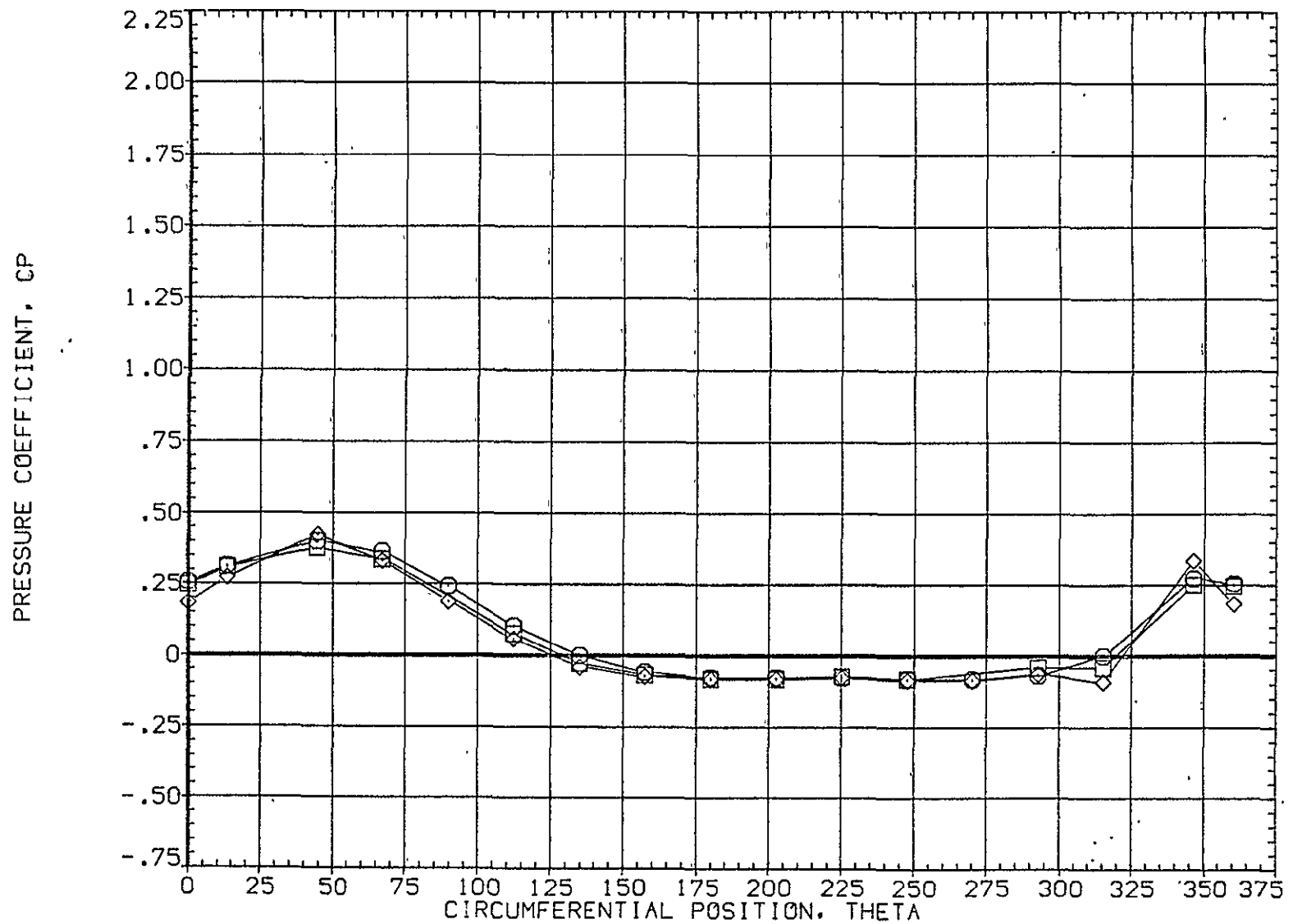
BETA
MOUNT.000
1.000OFFSET
PHI20.000
225.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	28.720	3.480	BETA	.000	OFFSET	20.000
□	.735			MOUNT	1.000	PHI	225.000
◇	.860						

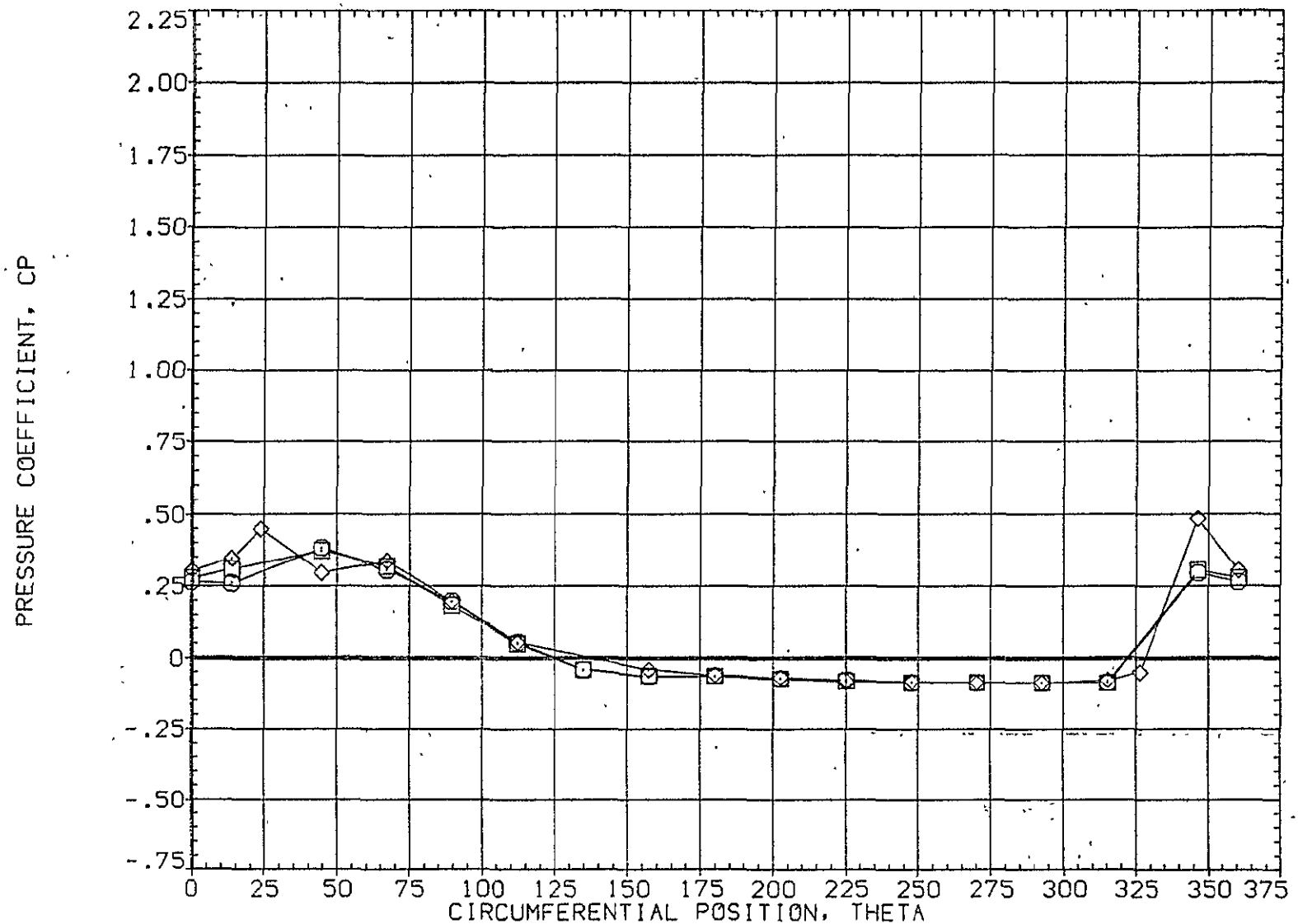


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 225.000
○	.892	28.720	3.480			
□	.923					
◇	.954					

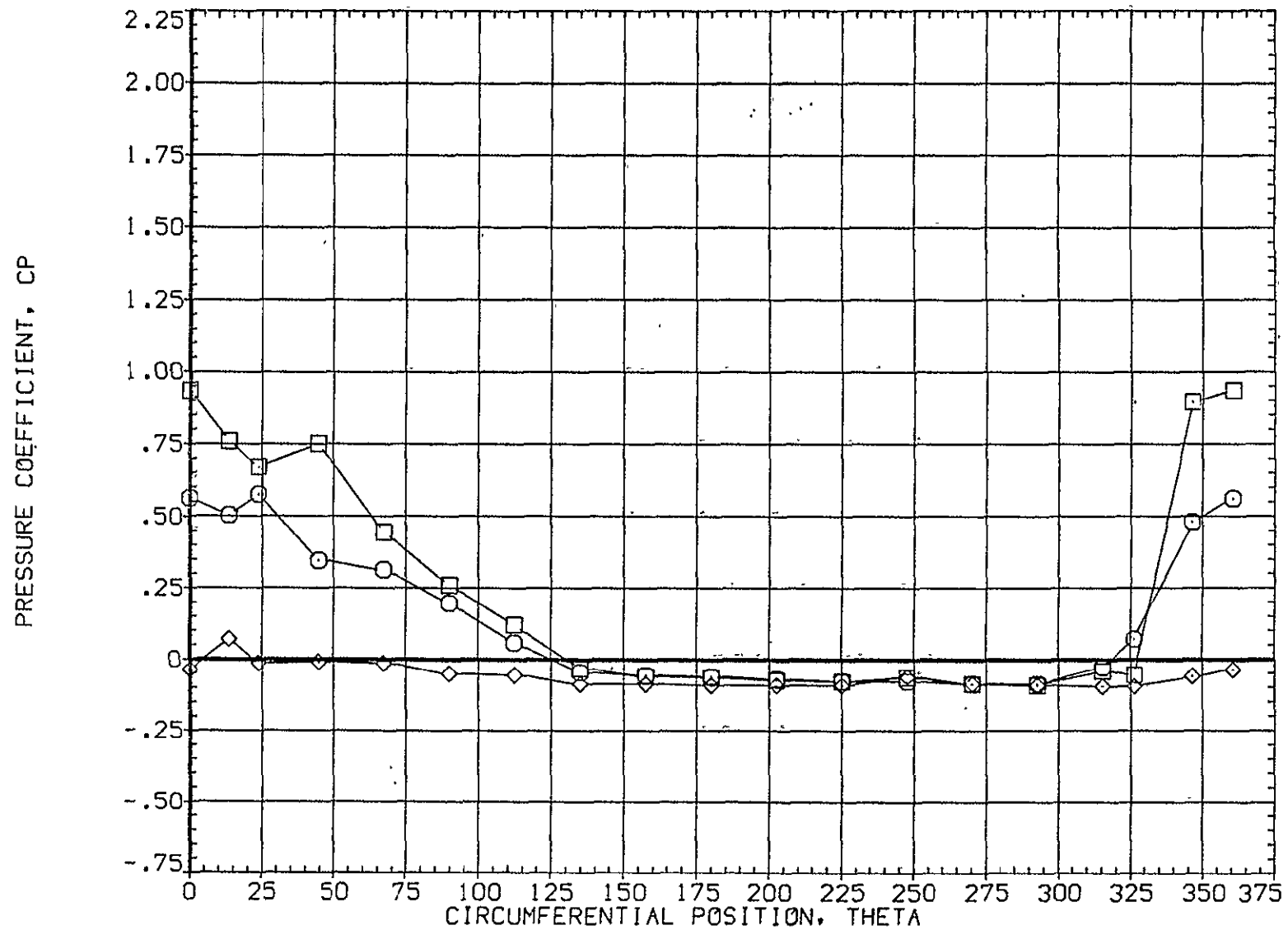


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	.000
○	.055	-8.360	3.480	MOUNT	1.000	PHI
□	.108					270.000
◇	.162					

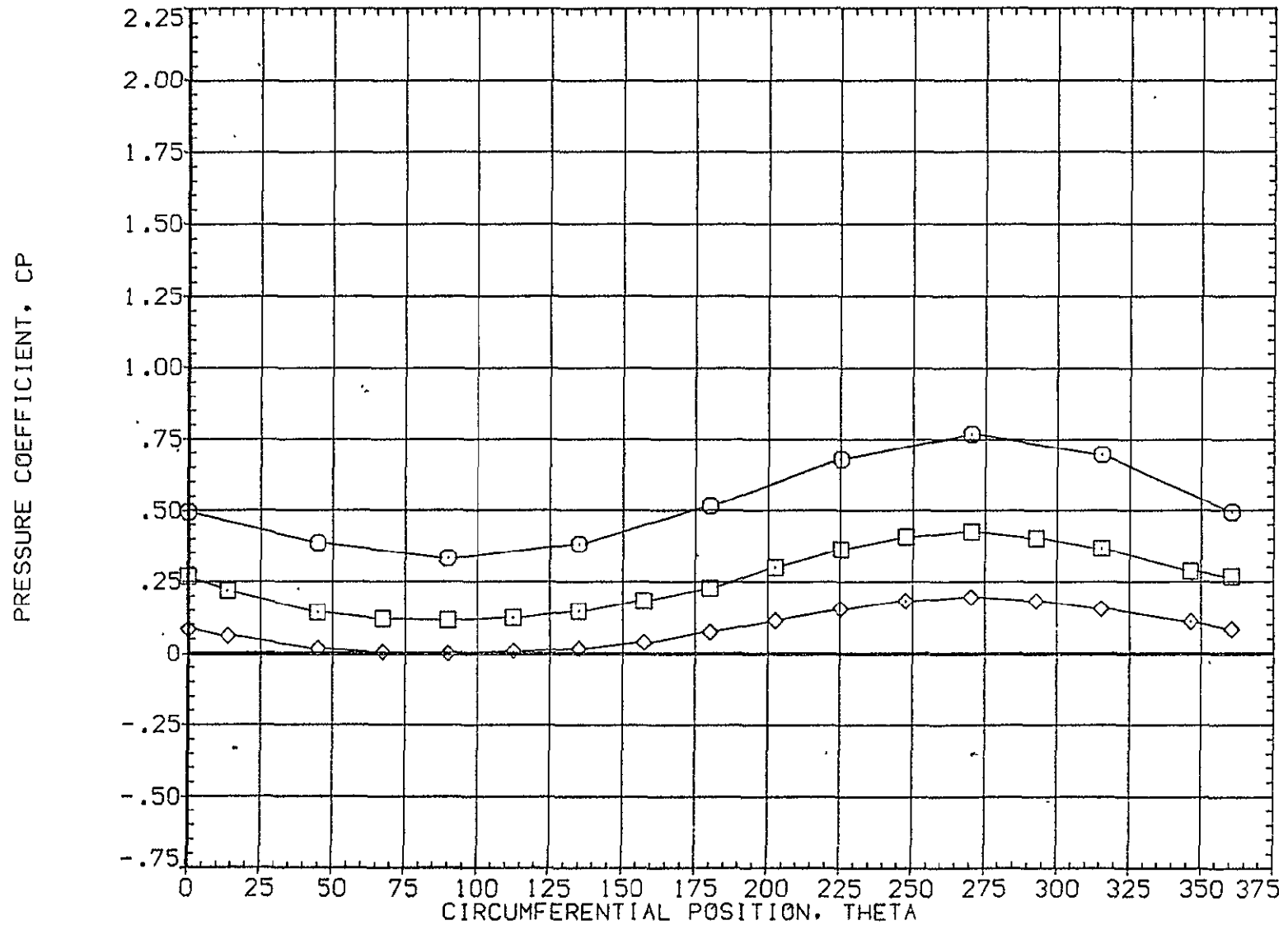


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	.000 1.000 PHI	OFFSET PHI 270.000
○	.216	-8.360	3.480			.000
□	.322					
◇	.518					

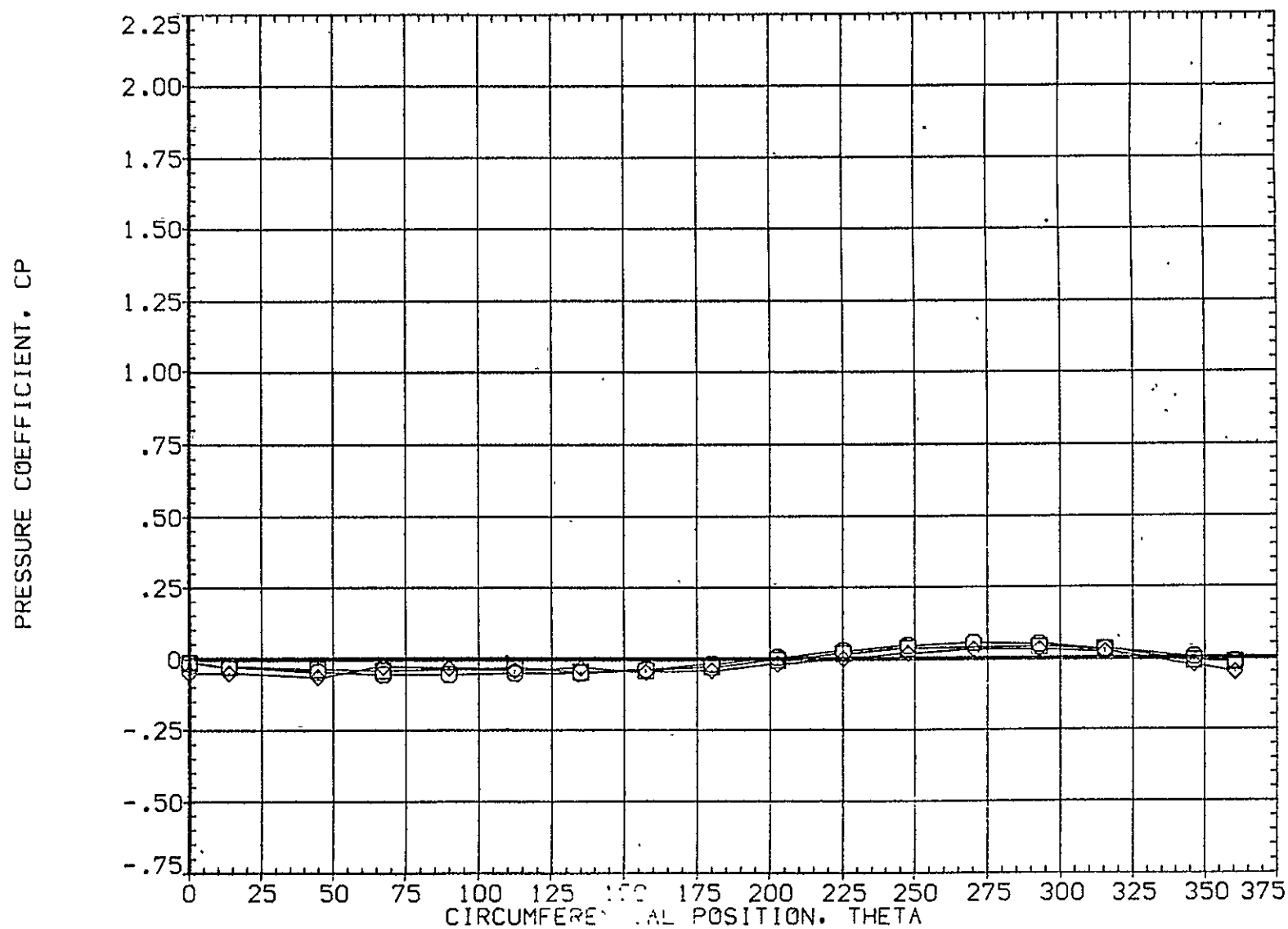


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK,

(P1A051)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.610	-8.360	3.480	MOUNT	1.000	PHI	270.000
□	.735						
◇	.860						

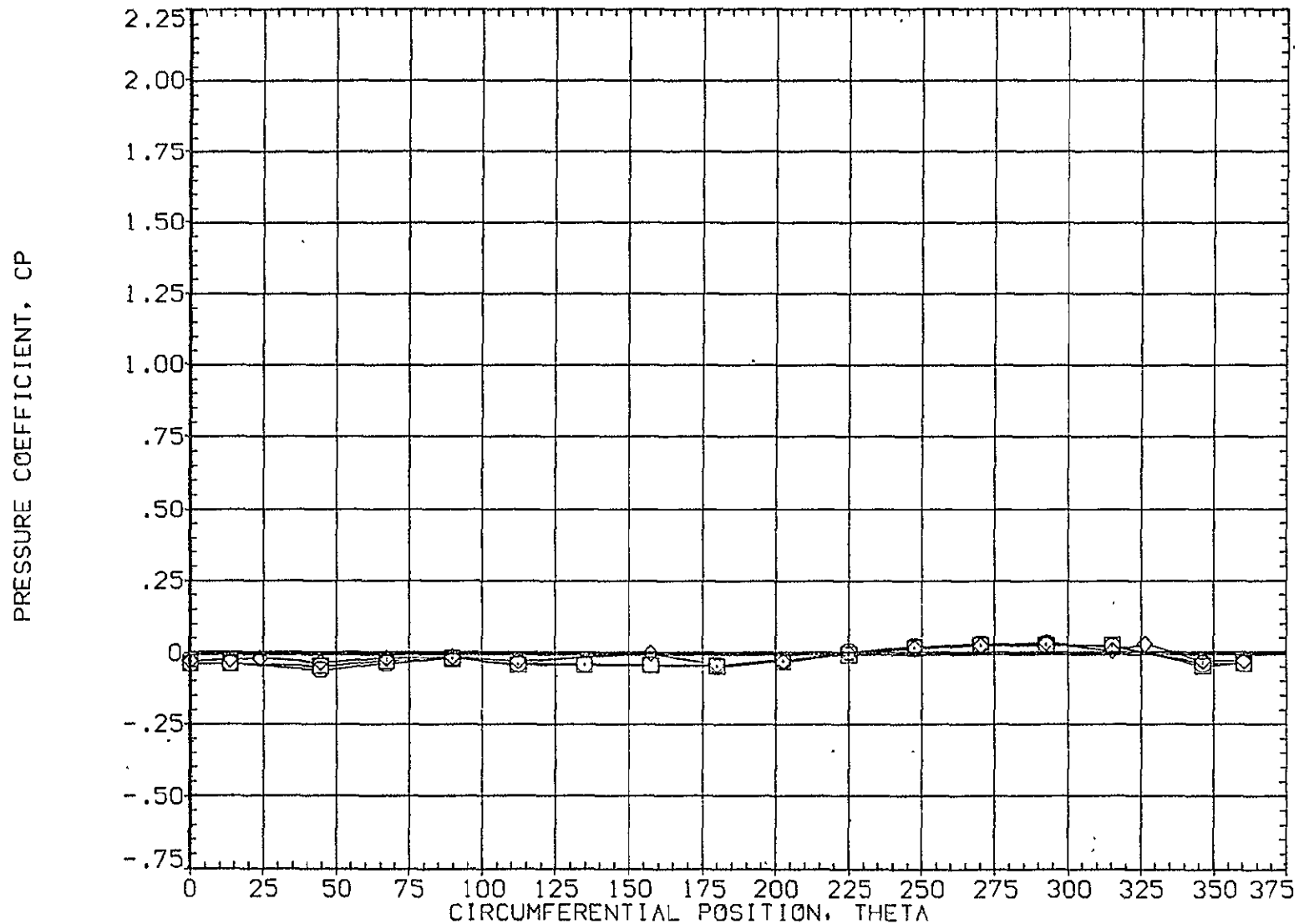


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-8.360	3.480	.000	.000	.000
□	.923			1.000	PHI	270.000
◇	.954					

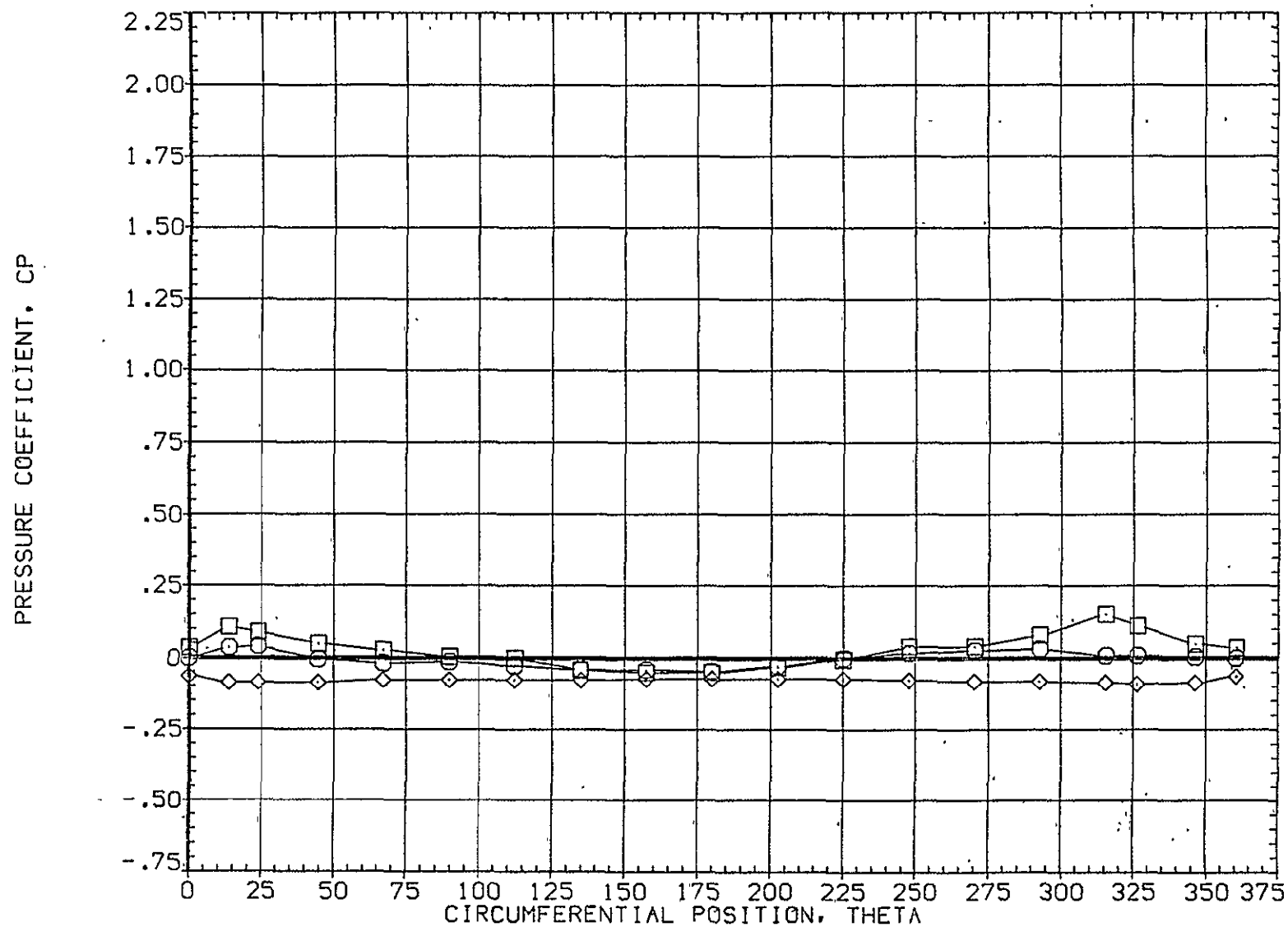


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-4.330	3.480	MOUNT	.000	PHI	.000
□	.108				1.000		270.000
◇	.162						

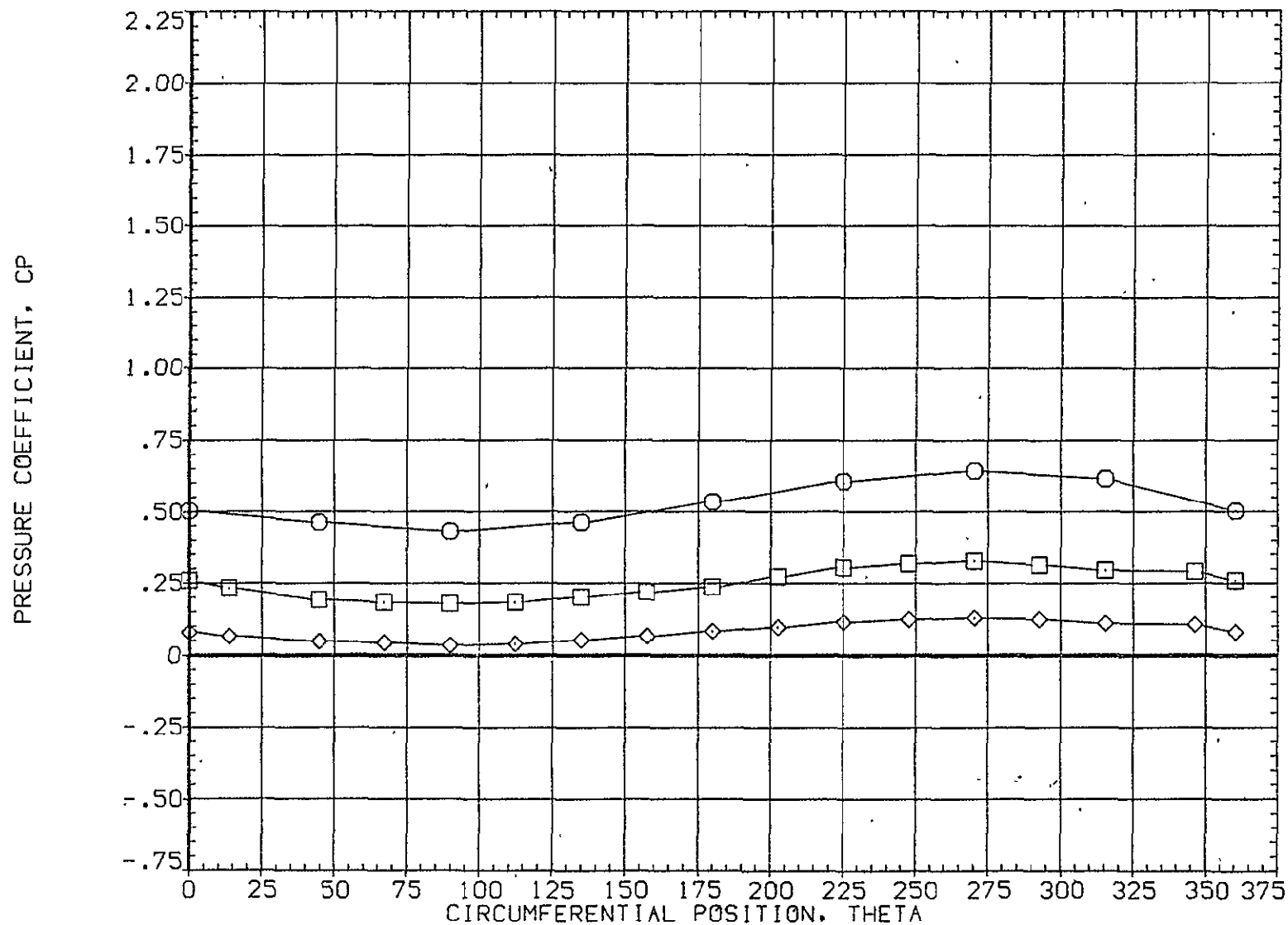


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.216	-4.330	3.480		.000	.000
□	.322				1.000	270.000
◇	.518					

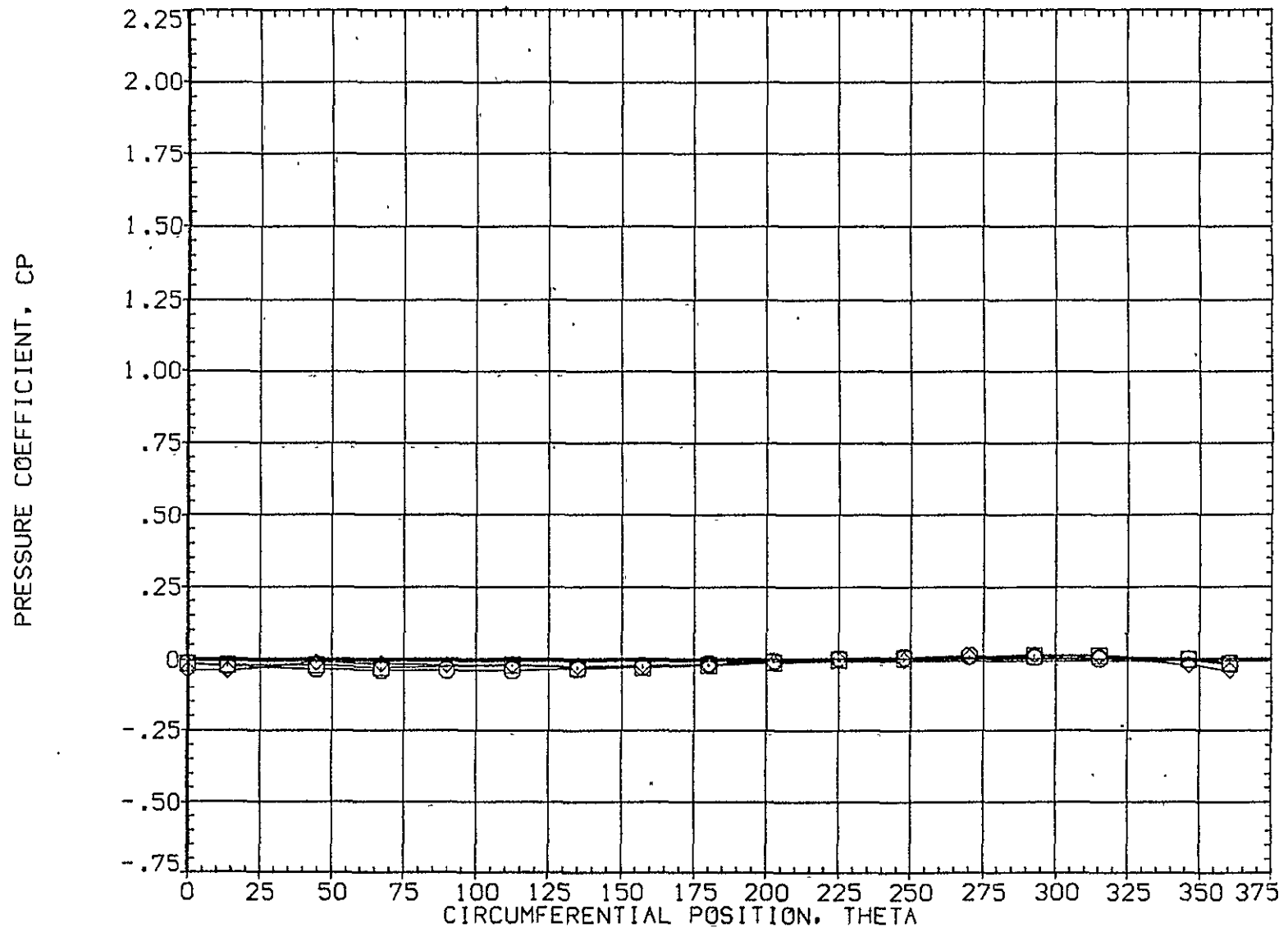


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	-4.330	3.480	BETA	.000	OFFSET	.000
□	.735			MOUNT	1.000	PHI	270.000
◇	.860						

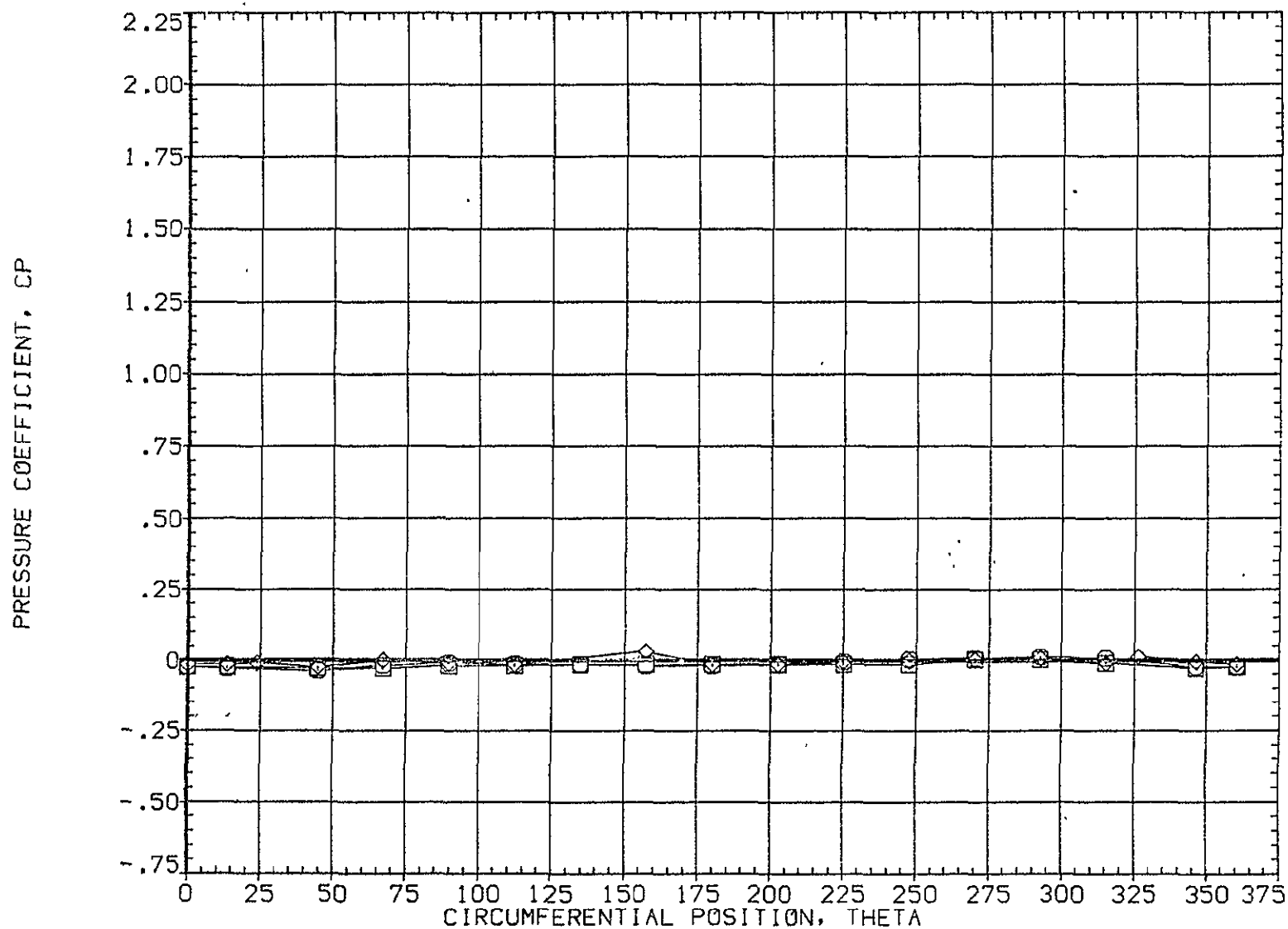


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 270.000
○	.892	-4.330	3.480			
□	.923					
◇	.954					

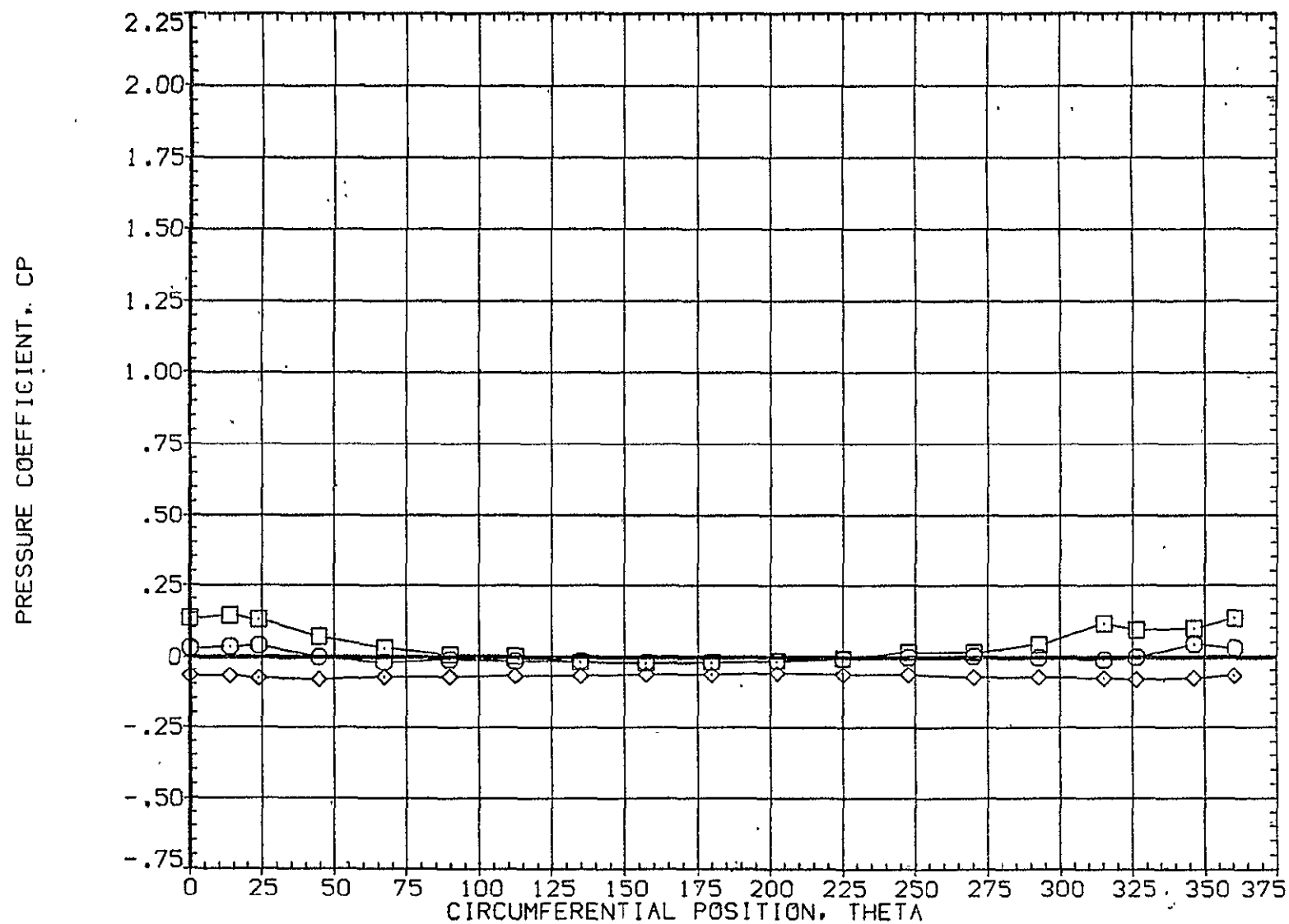


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A053)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-.280	3.480	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	270.000
◇	.162						

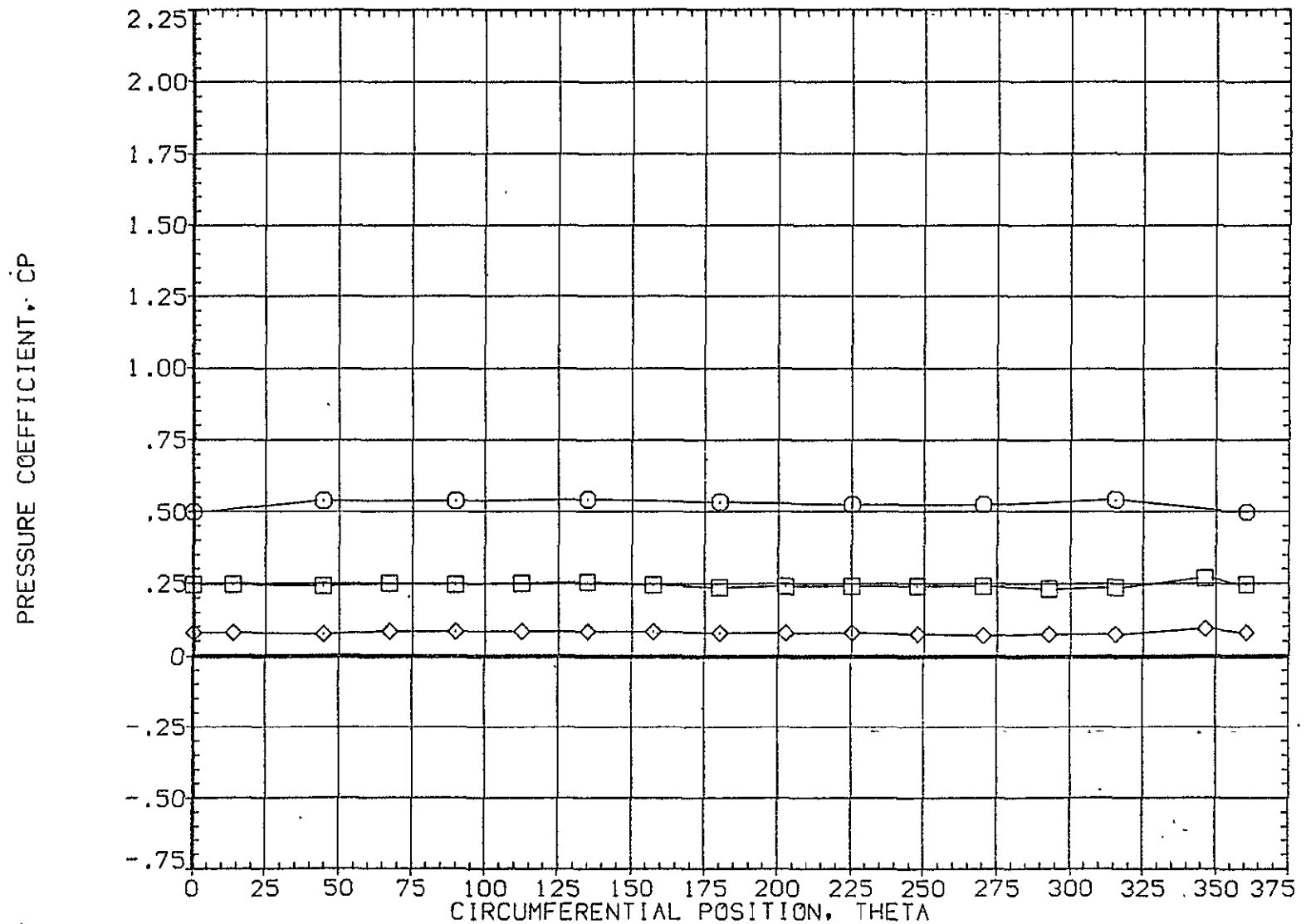


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.216	-.280	3.480	MOUNT	1.000	PHI	270.000
□	.322						
◇	.518						

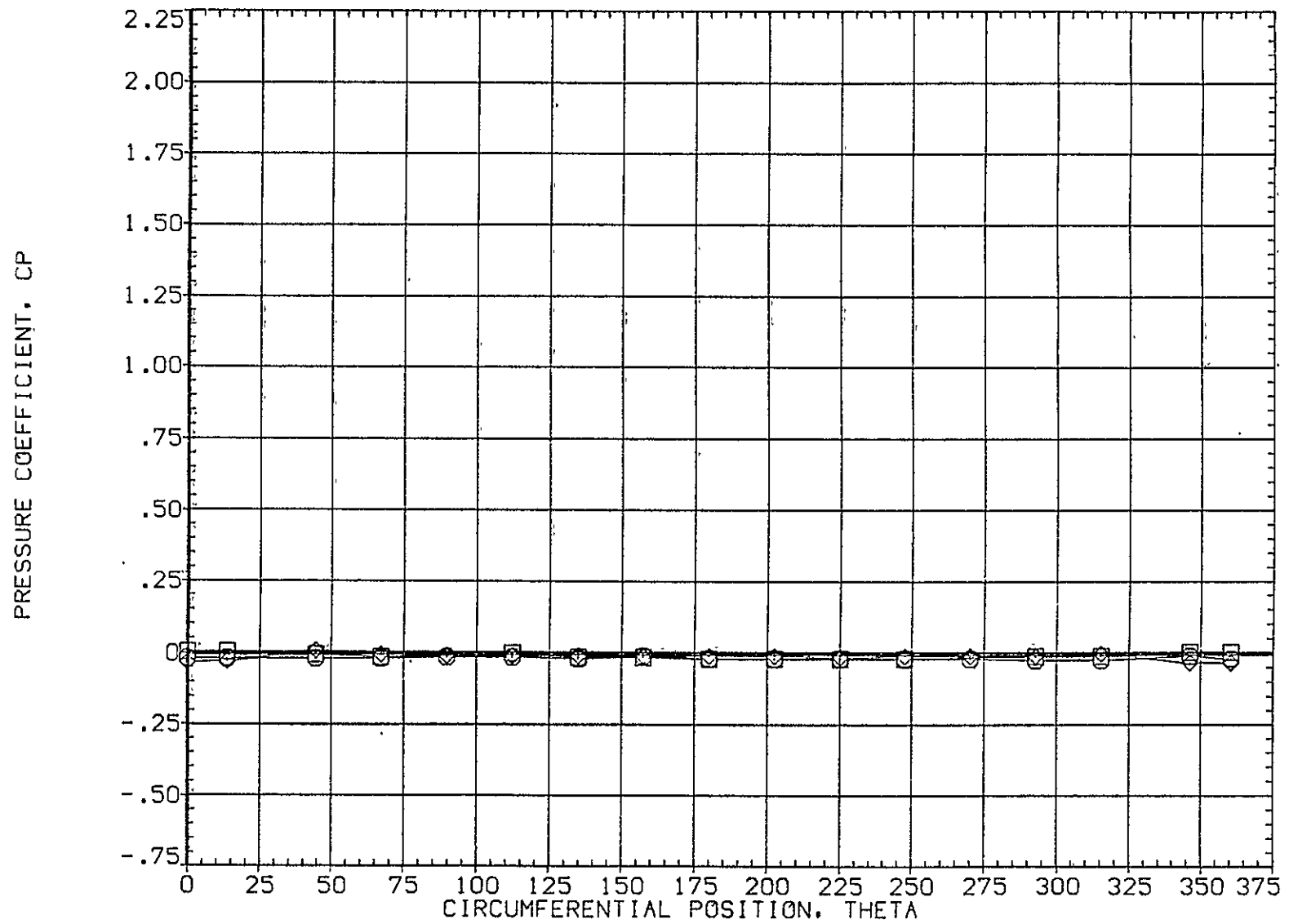


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A053)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.610	-.280	3.480	.000			.000
□	.735			1.000			270.000
◇	.860						

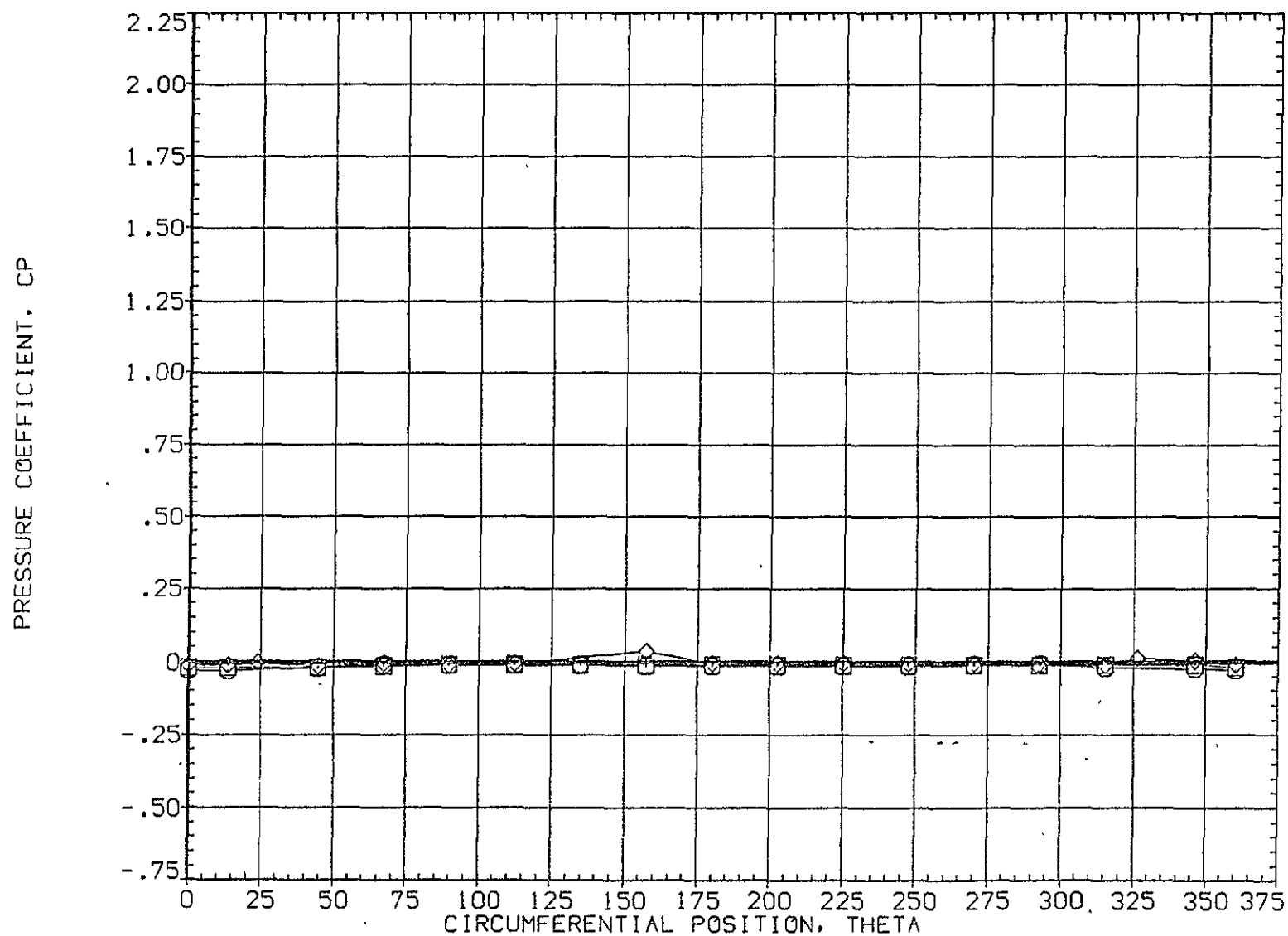


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	-.280	3.480	MOUNT	.000	.000	
□	.923				1.000	PHI	270.000
◇	.954						

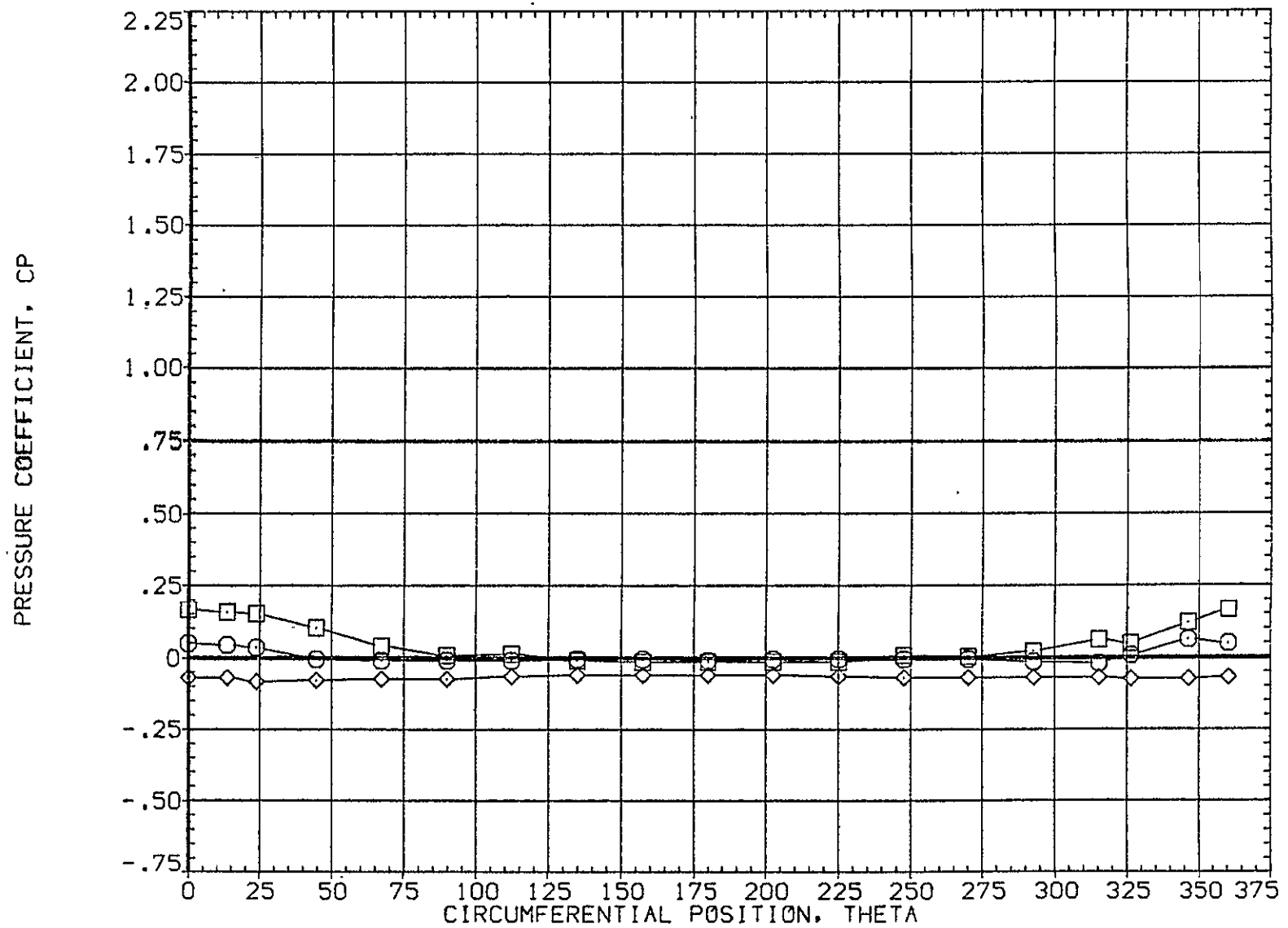


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A054)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	3.790	3.480	.000		.000	
□	.108			1.000	PHI	270.000	
◇	.162						

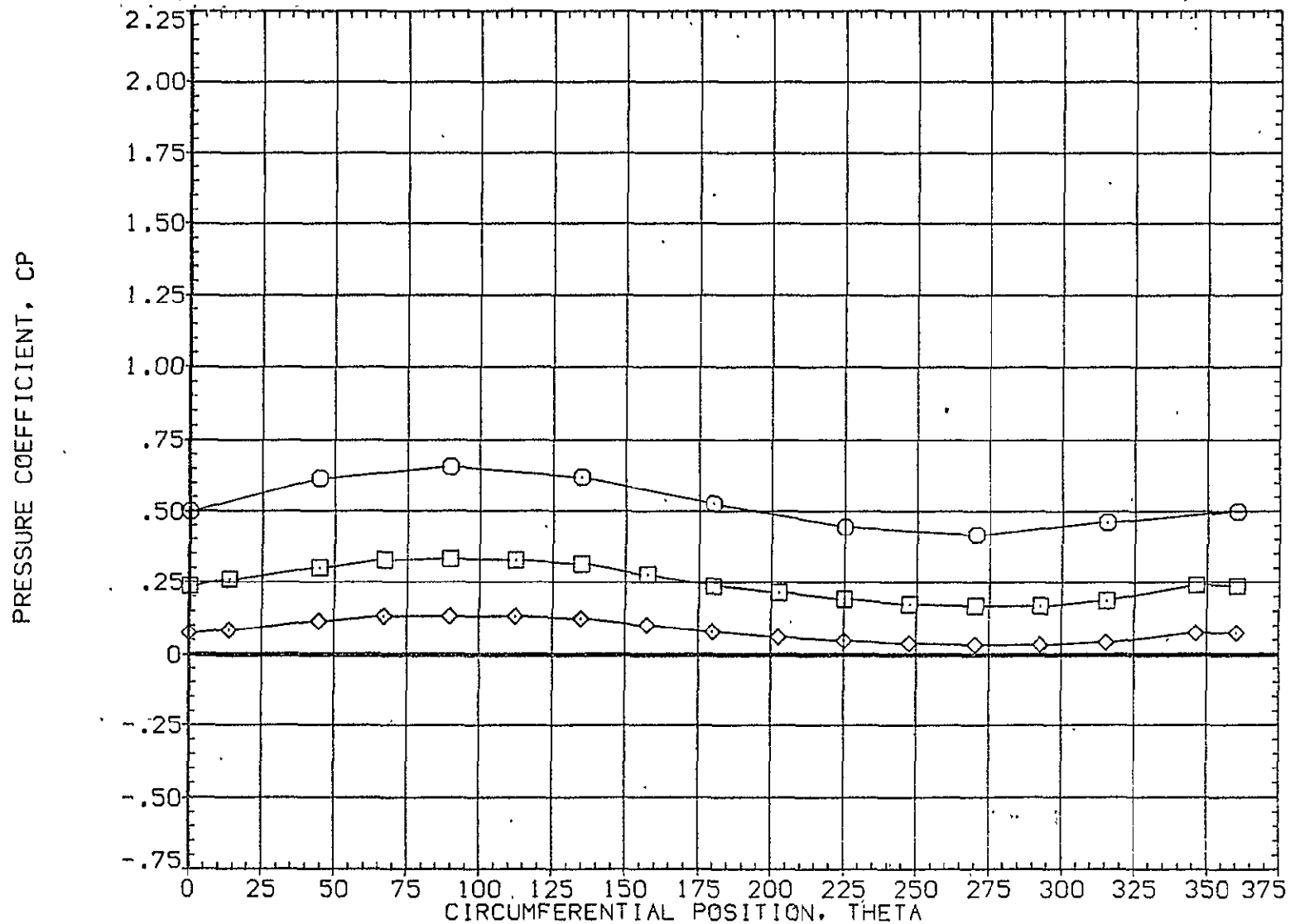


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	3.790	3.480	BETA	.000	OFFSET .000
□	.322			MOUNT	1.000	PHI 270.000
◇	.518					

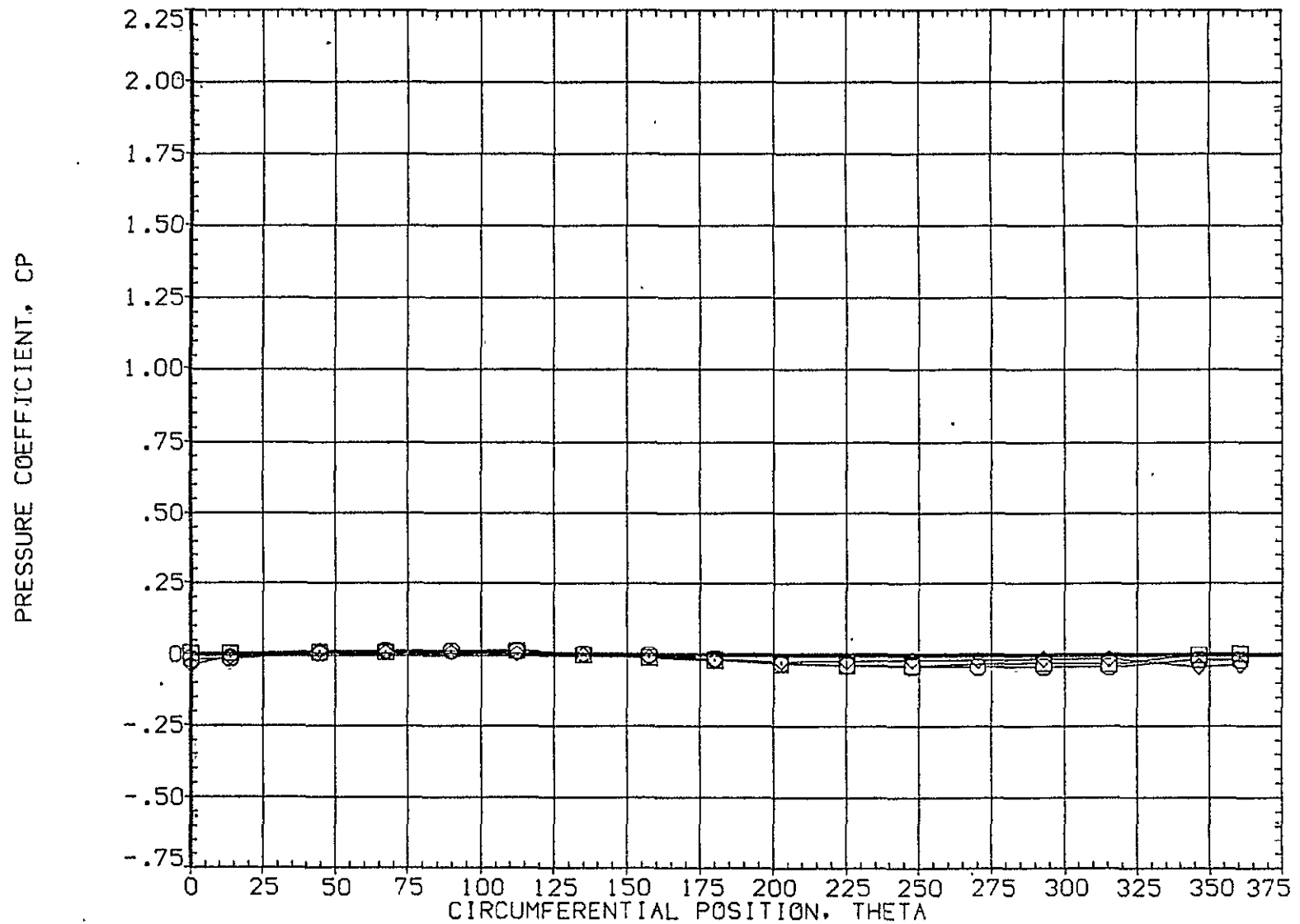


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A054)

SYMBOL	X/LB	ALPHA	MACH		BETA	PARAMETRIC VALUES	
○	.610	3.790	3.480		.000	OFFSET	.000
□	.735				MOUNT	1.000	PHI
◇	.860						270.000

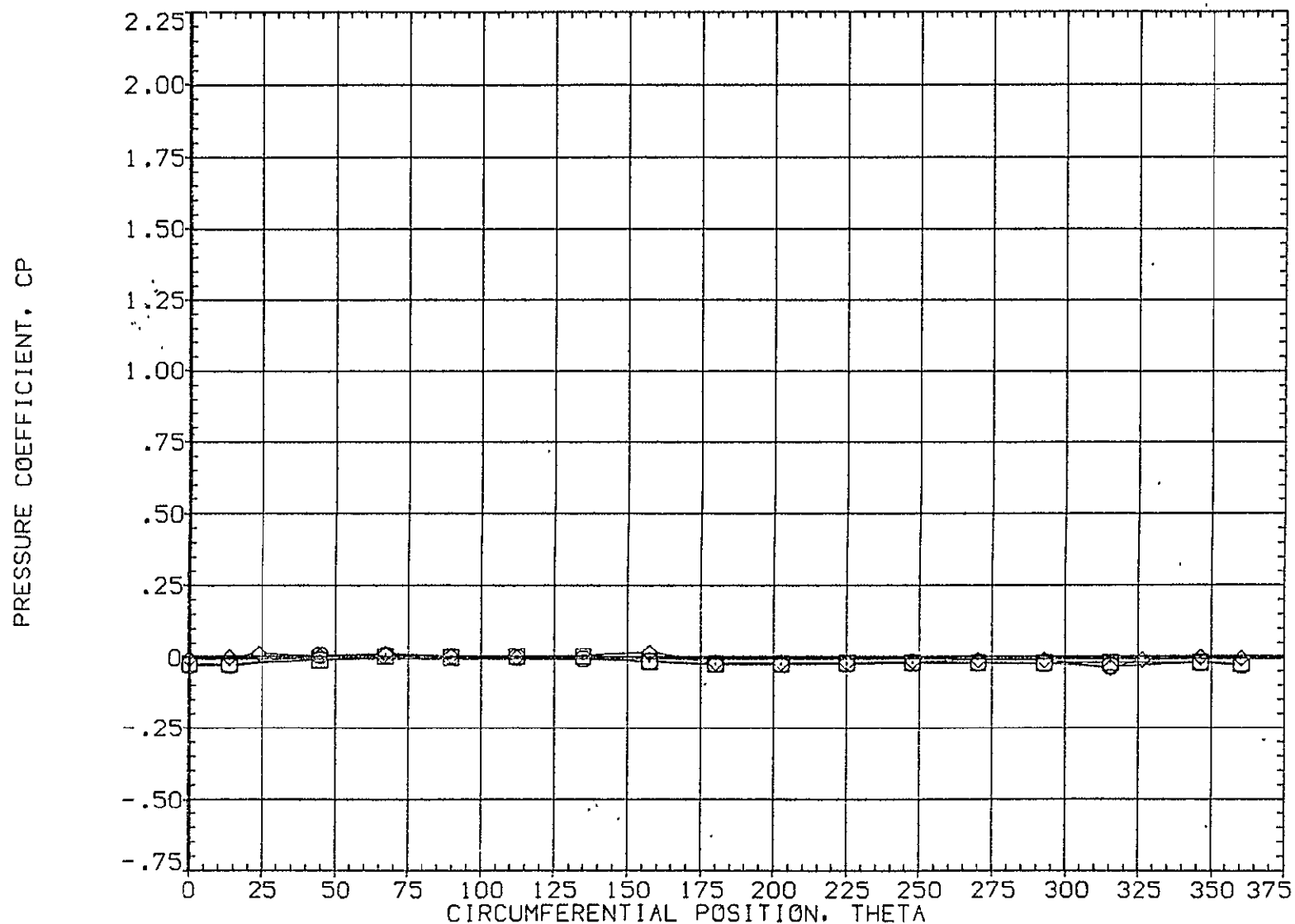


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 270.000
○	.892	3.790	3.480			
□	.923					
◇	.954					

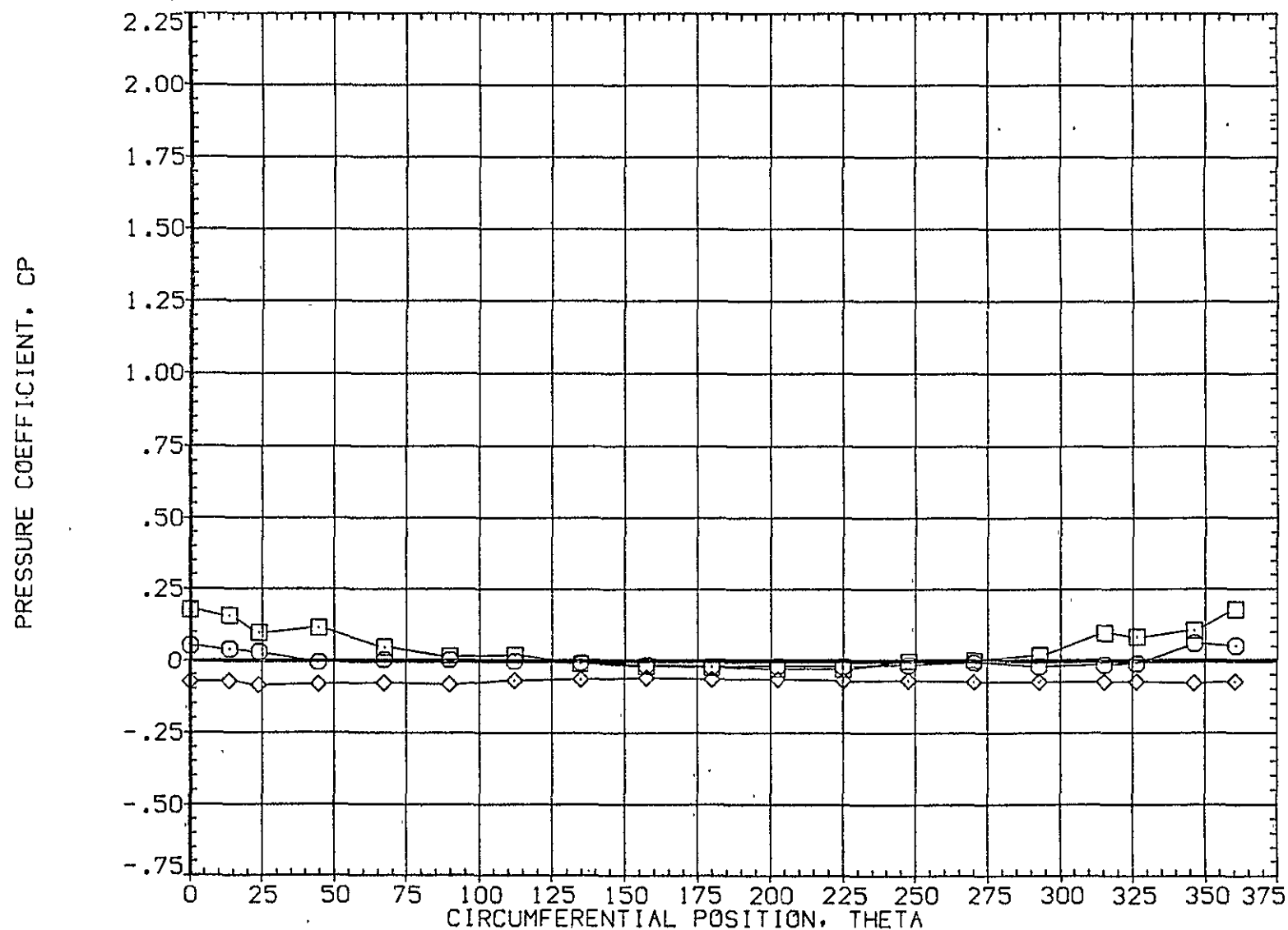


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	7.800	3.480	.000	.000	
□	.108			1.000	PHI	270.000
◇	.162					

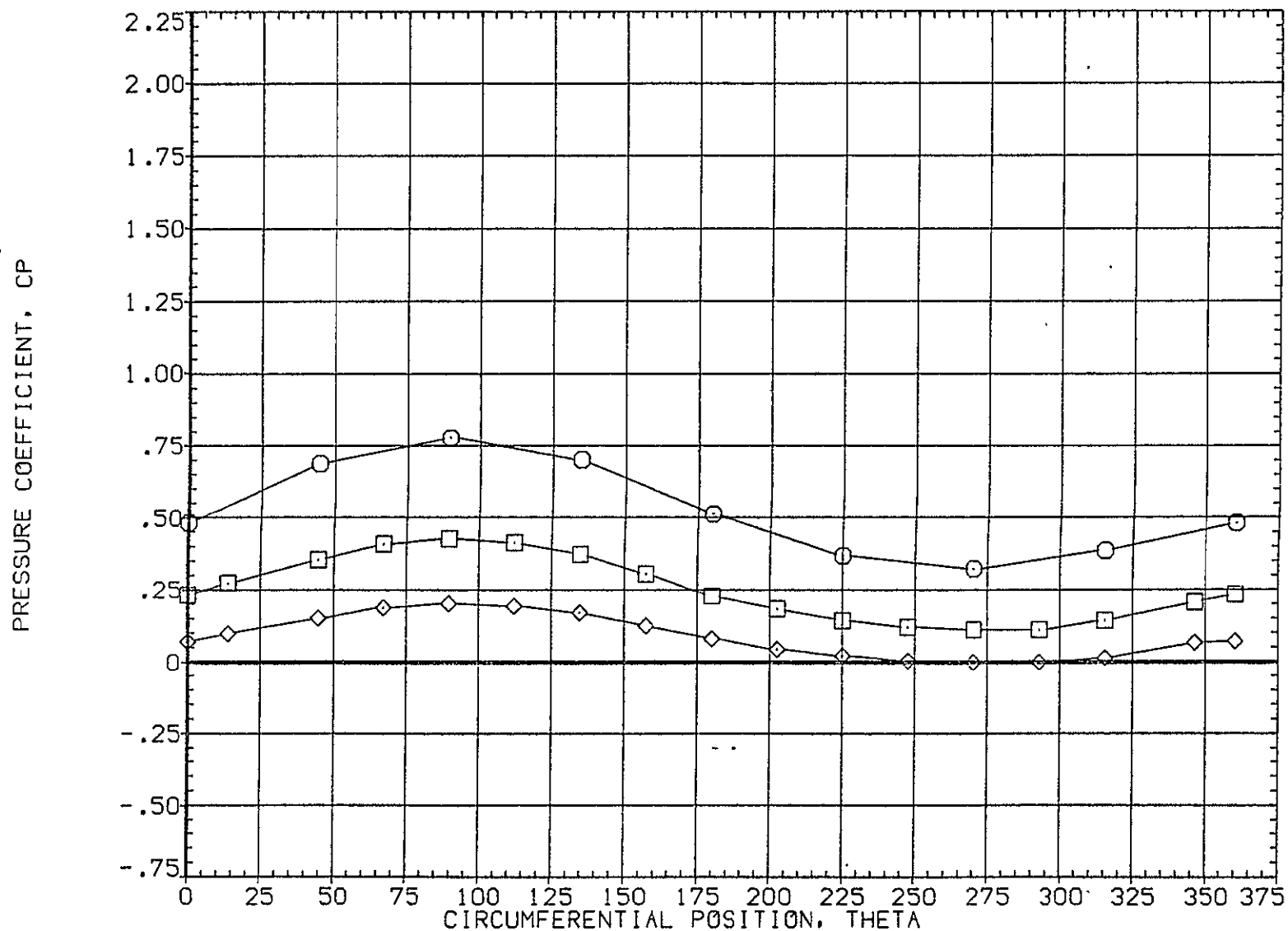


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	7.800	3.480	BETA	.000	OFFSET .000
□	.322			MOUNT	1.000	PHI 270.000
◇	.518					

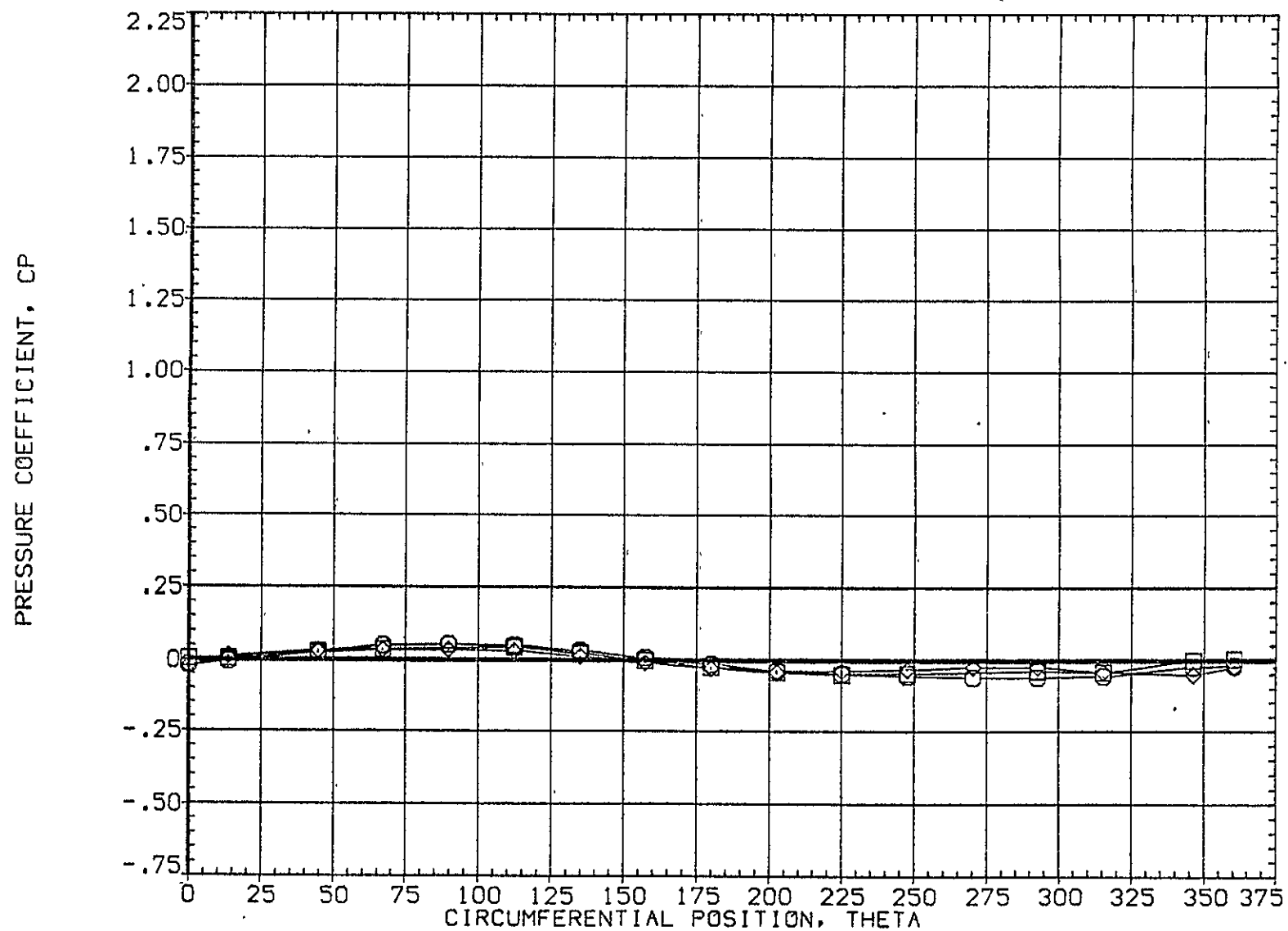


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A055)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.610	7.800	3.480	.000			.000
□	.735			1.000			270.000
◇	.860						

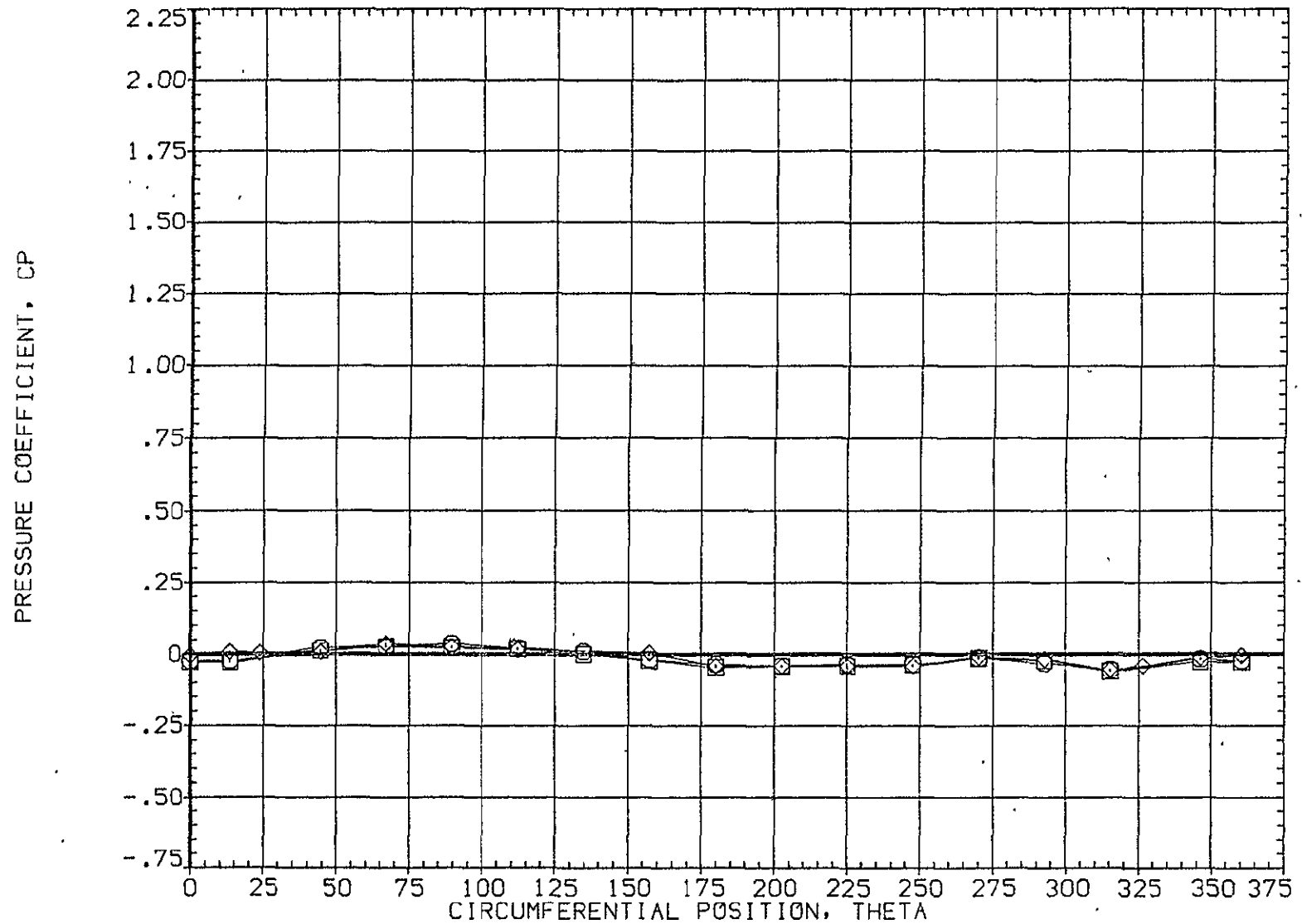


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	7.800	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	270.000

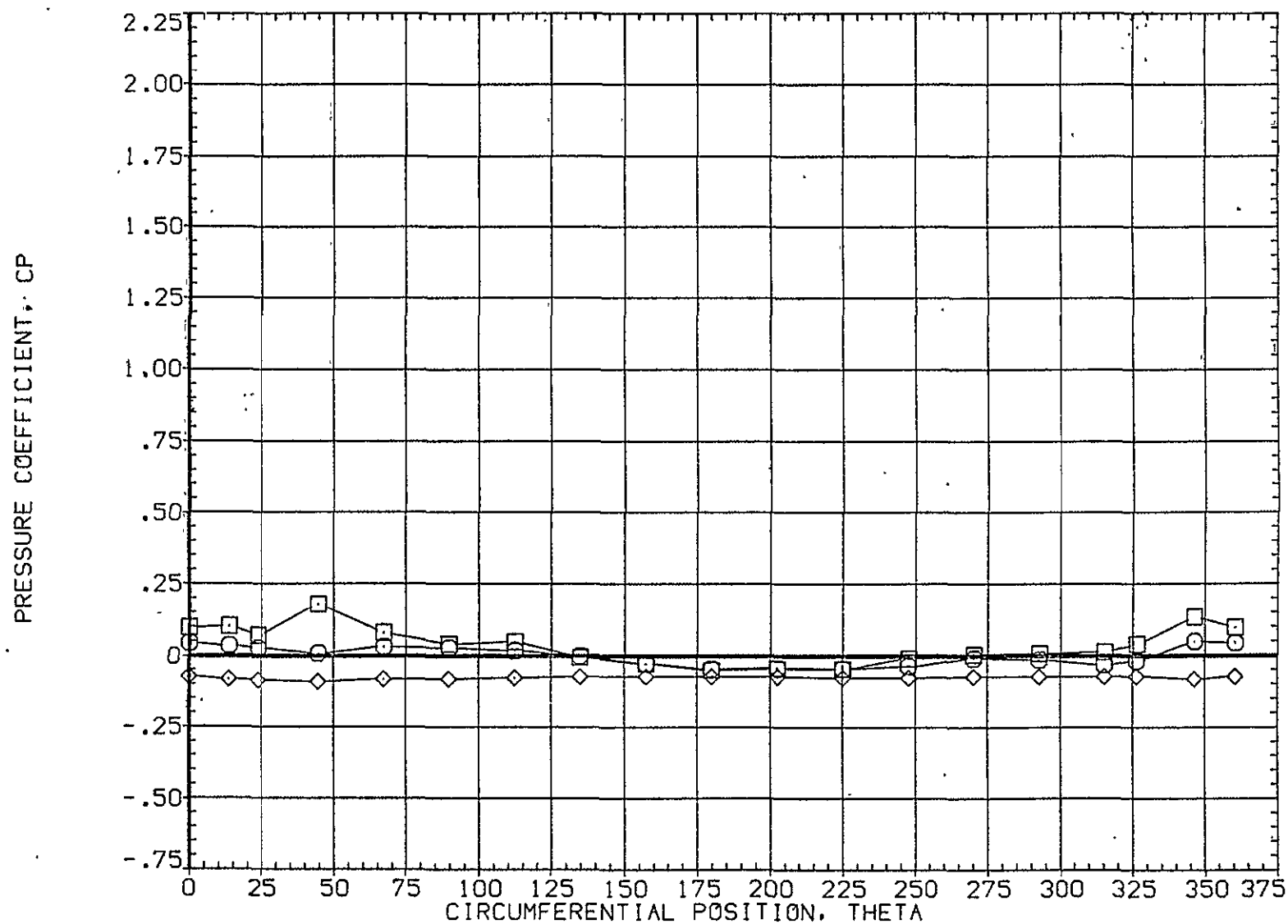


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	12.520	3.480
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

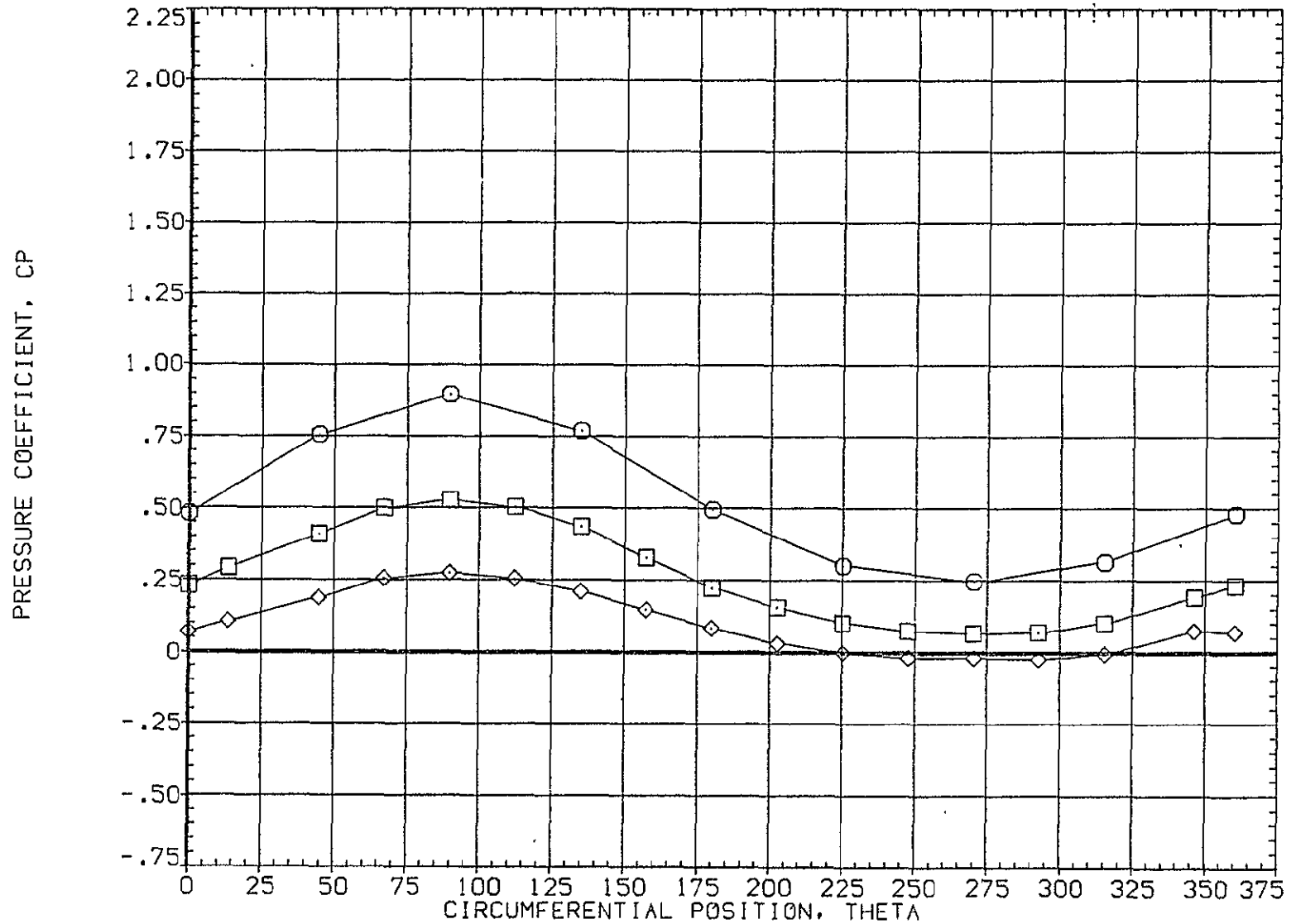


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	12.520	3.480	MOUNT	1.000	PHI
□	.322					20.000
◇	.518					270.000

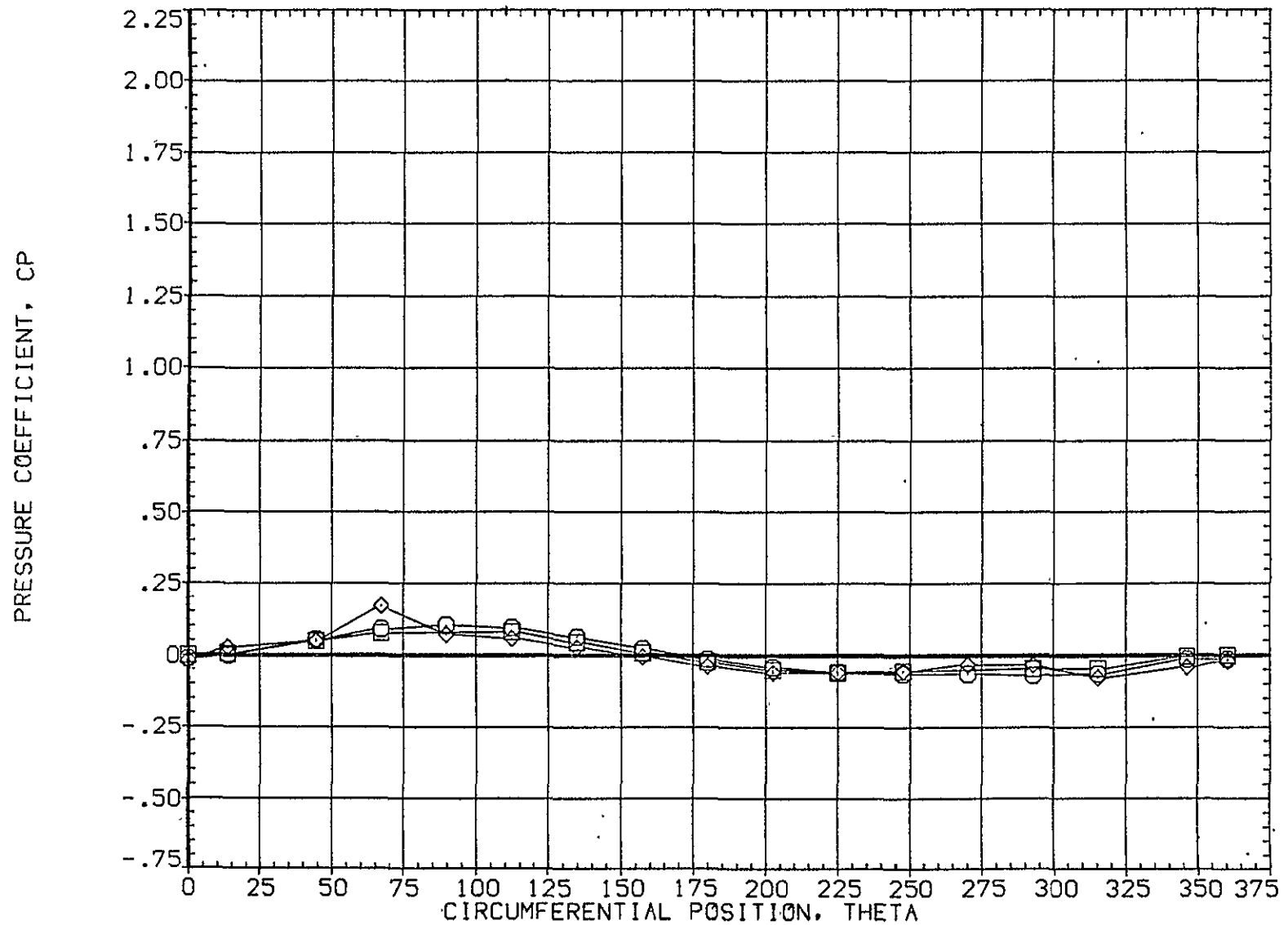


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A056)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
◇	.610	12.520	3.480	0.000	OFFSET	20.000	
□	.735			1.000	PHI	270.000	
◇	.860						

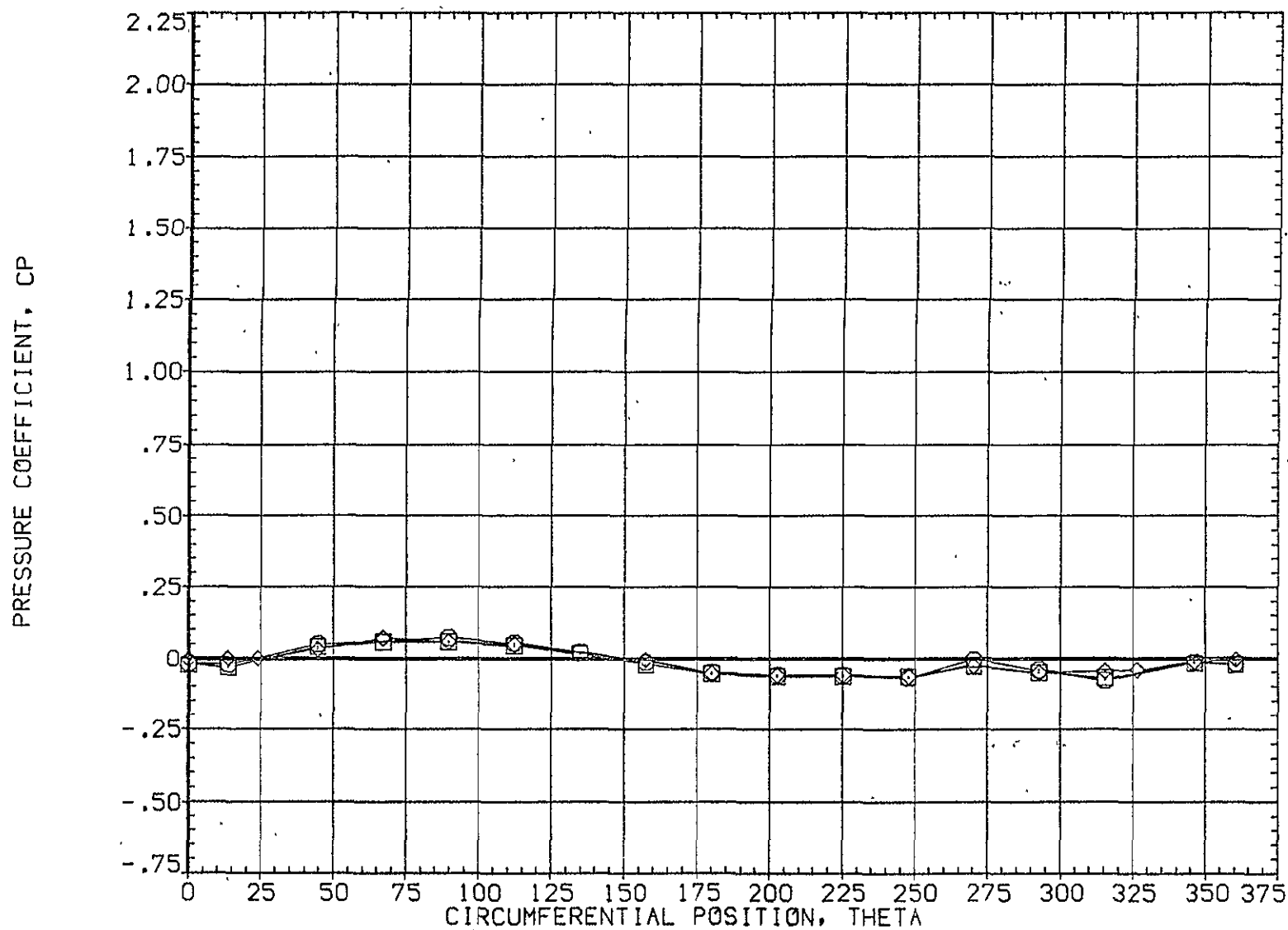


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	12.520	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

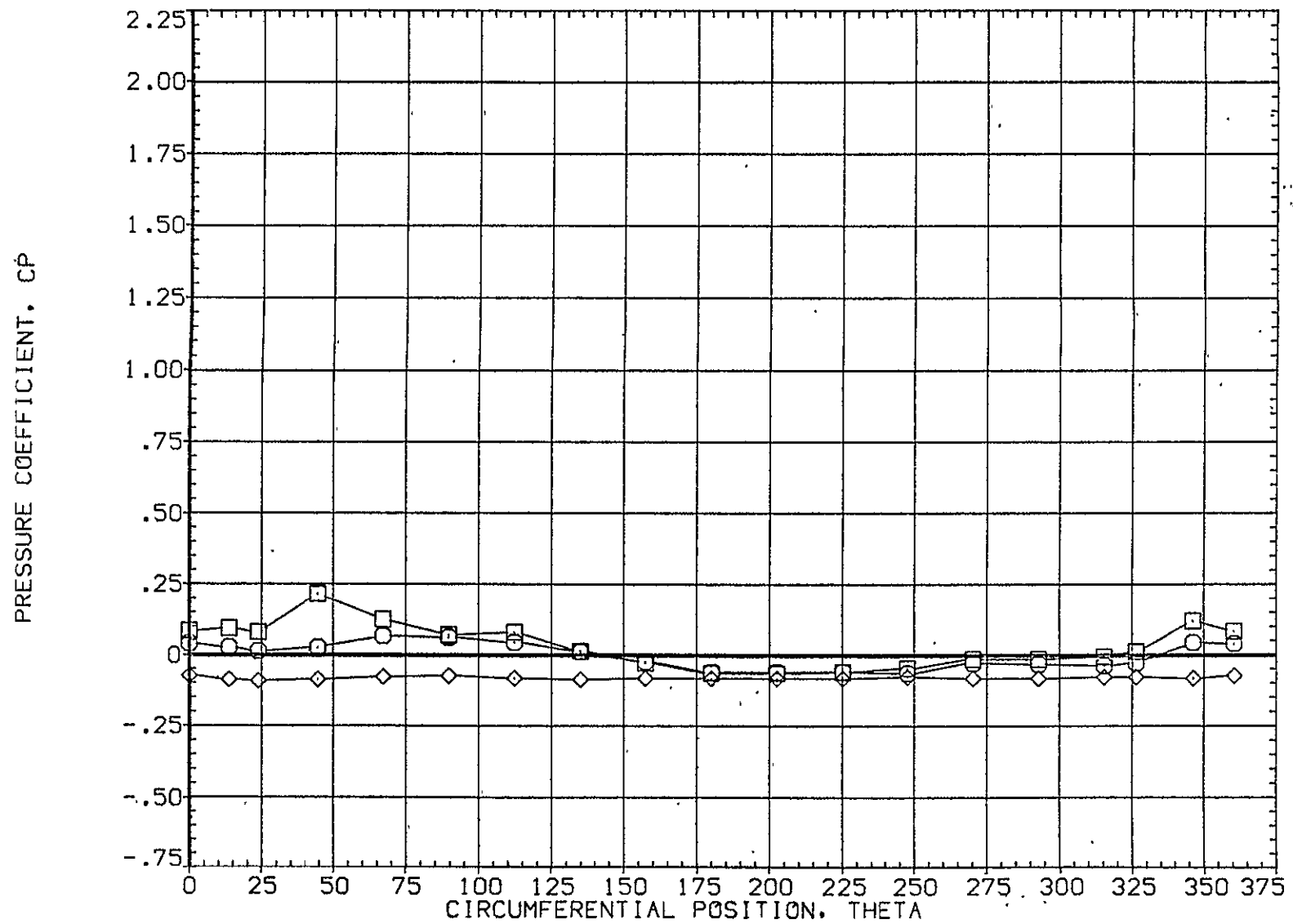


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.055	16.540	3.480	BETA	.000	OFFSET	20.000
□	.108			MOUNT	1.000	PHI	270.000
◇	.162						

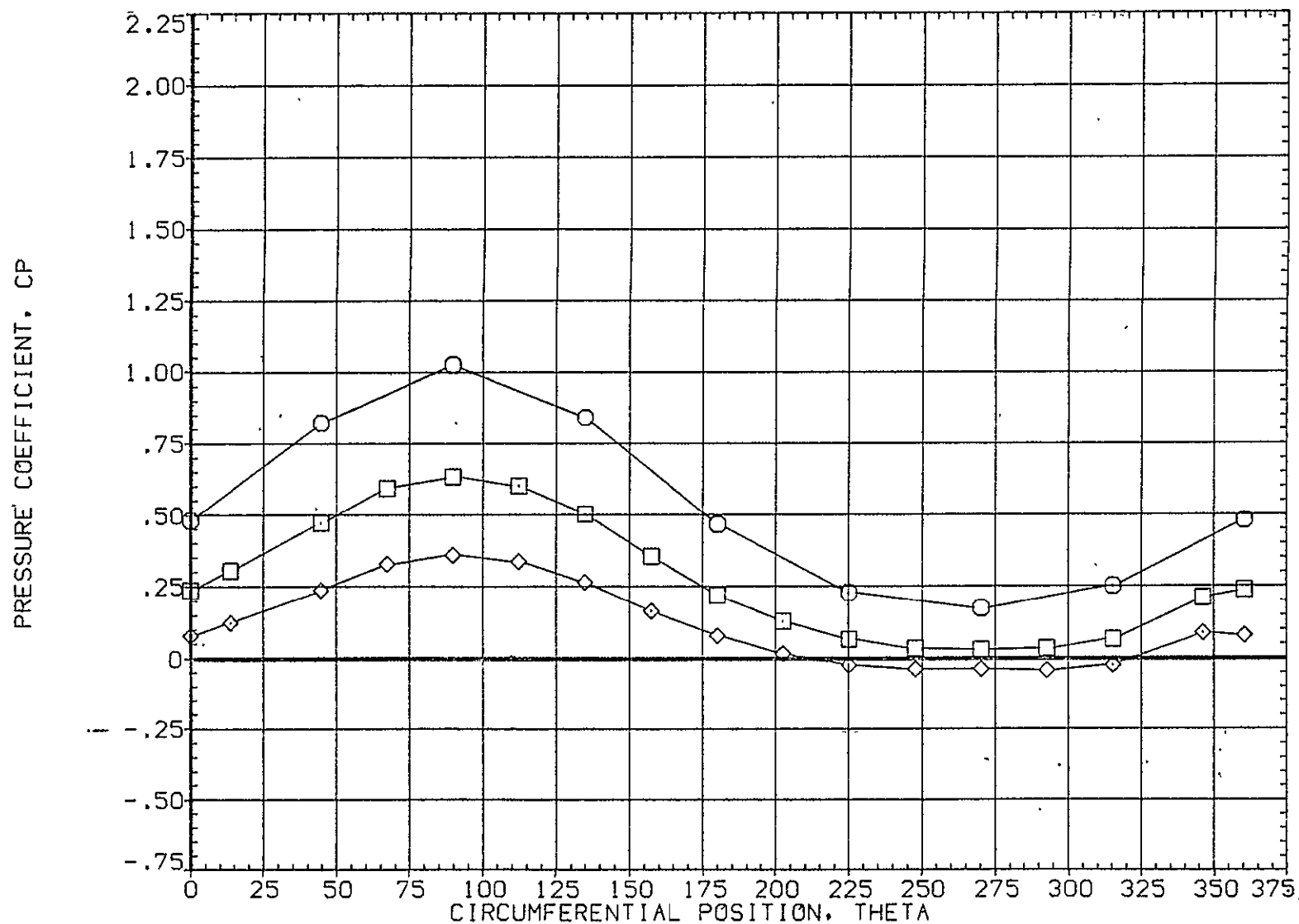


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	16.540	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 270.000

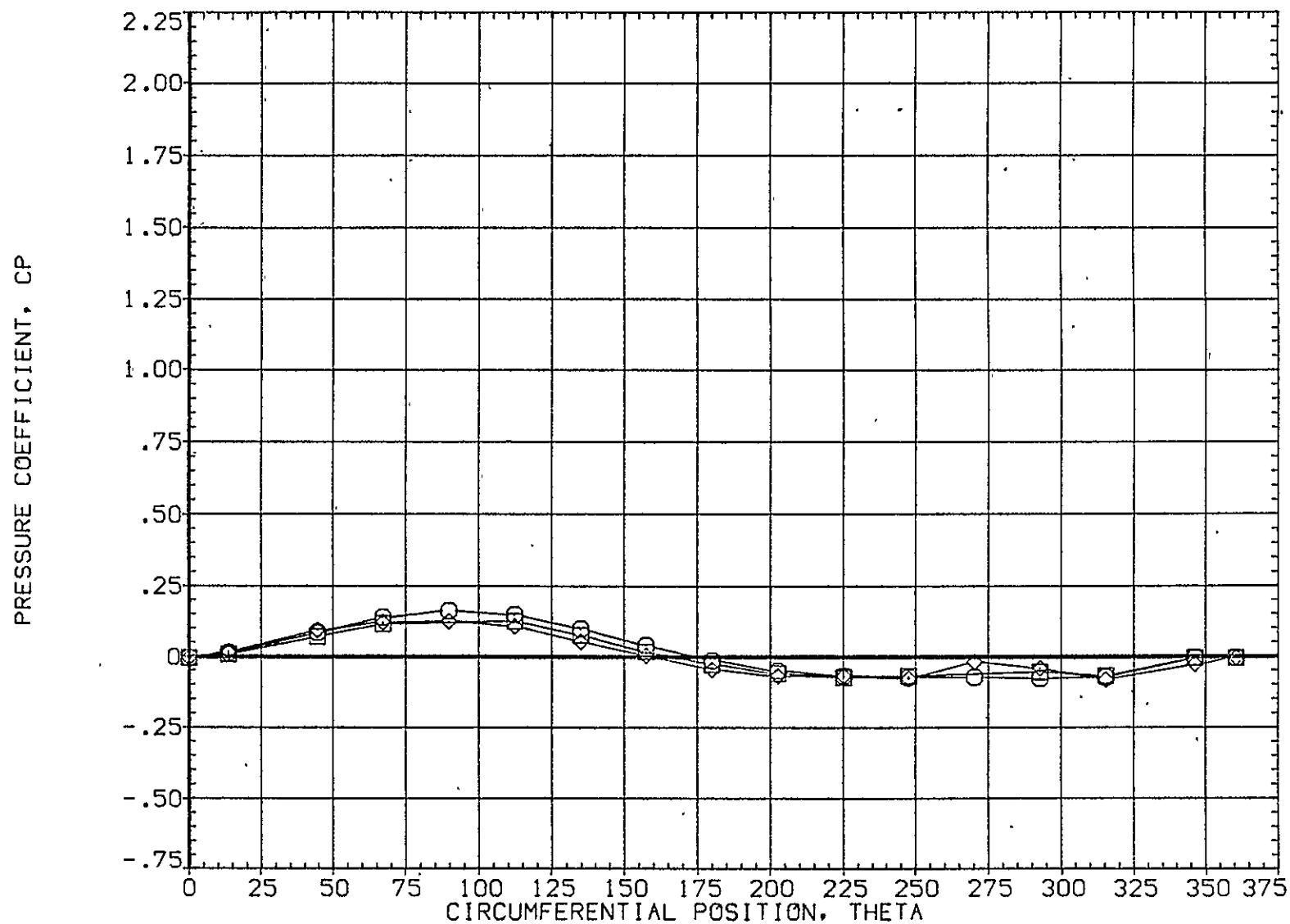


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A057)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	16.540	3.480	.000	OFFSET 20.000
□	.735			1.000	PHI 270.000
◇	.860				

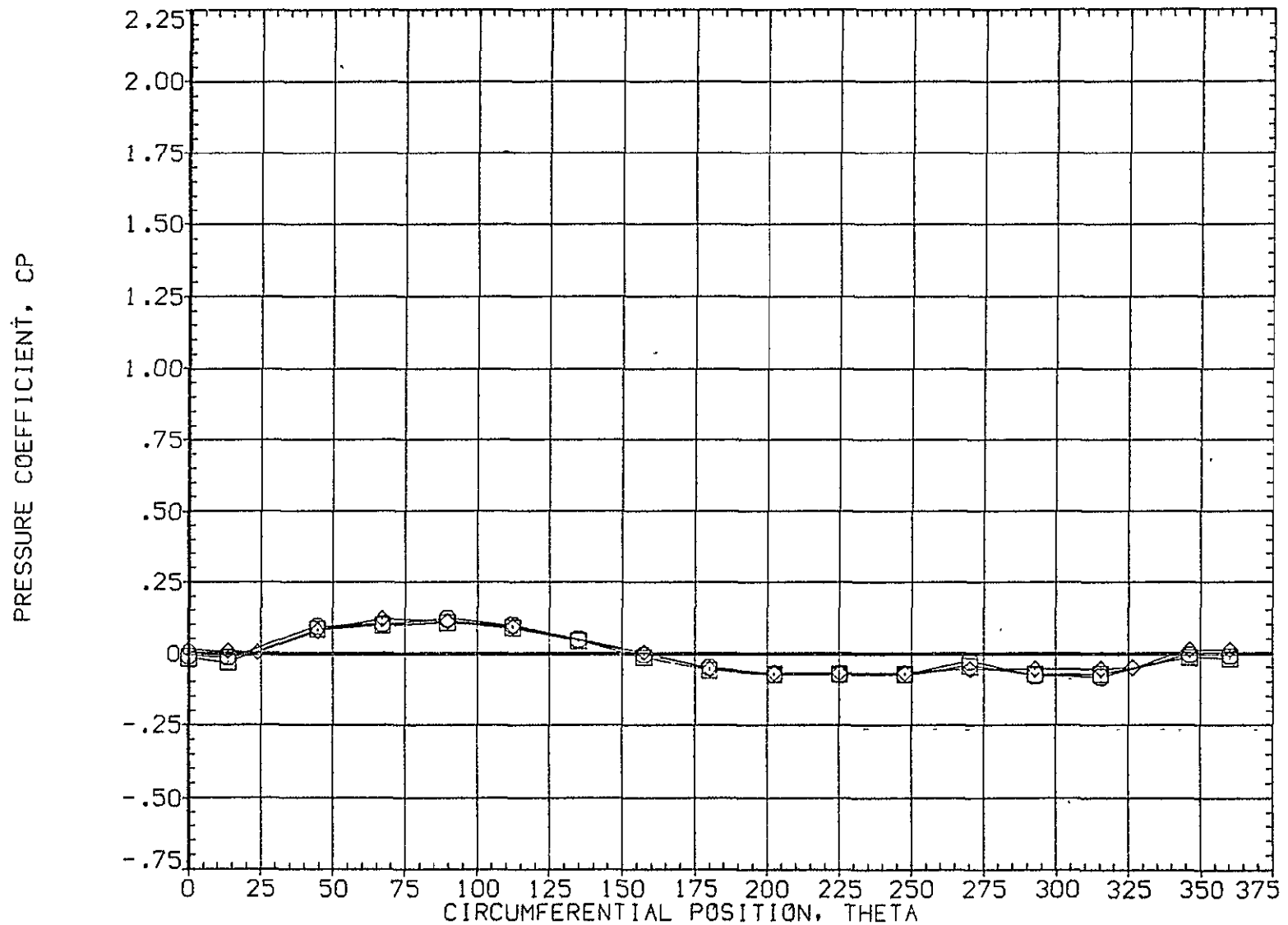


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	16.540	3.480		.000		20.000
□	.923				1.000		270.000
◇	.954						

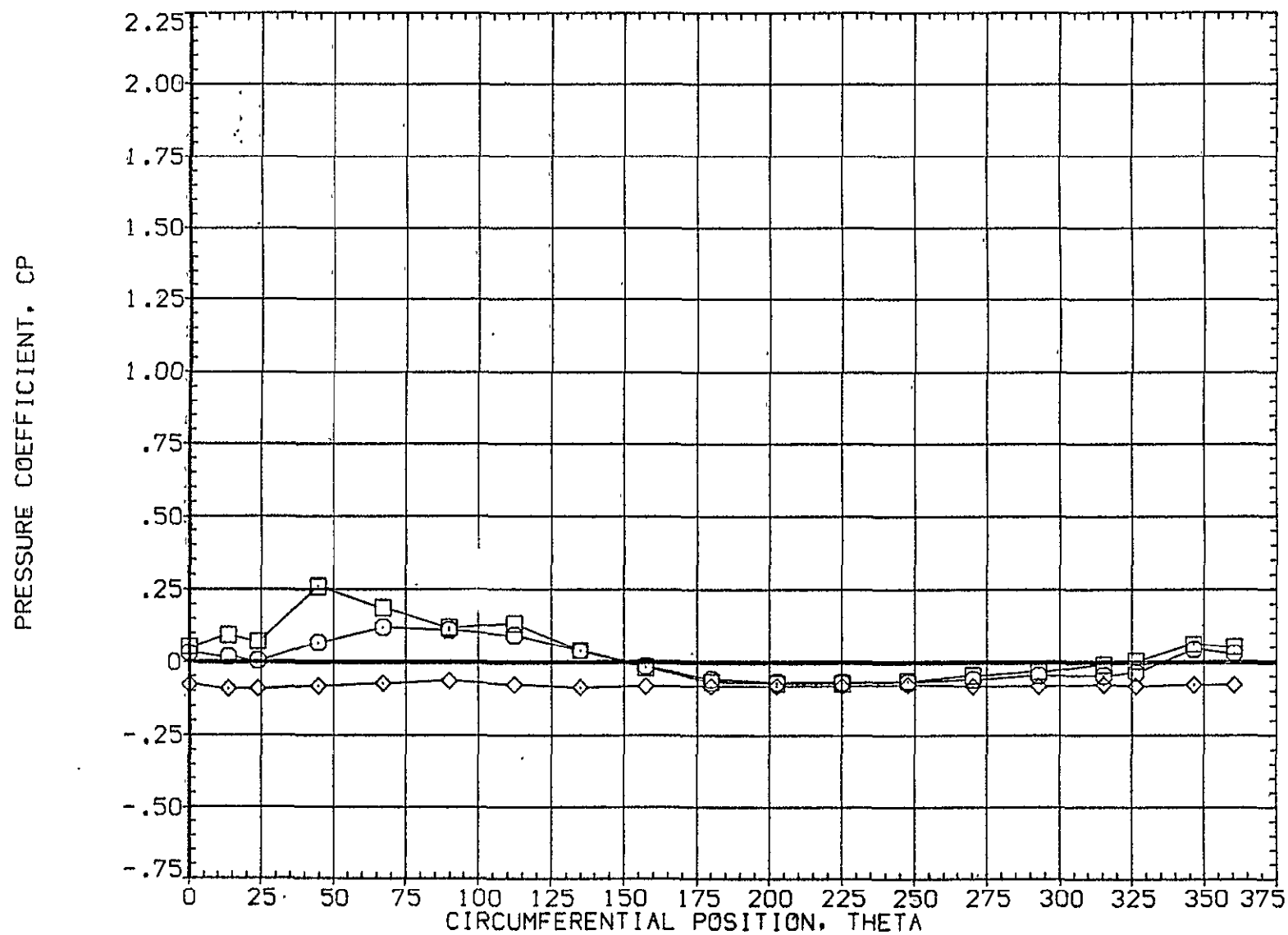


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	20.610	3.480	MOUNT	.000	OFFSET	20.000
□	.108				1.000	PHI	270.000
◇	.162						

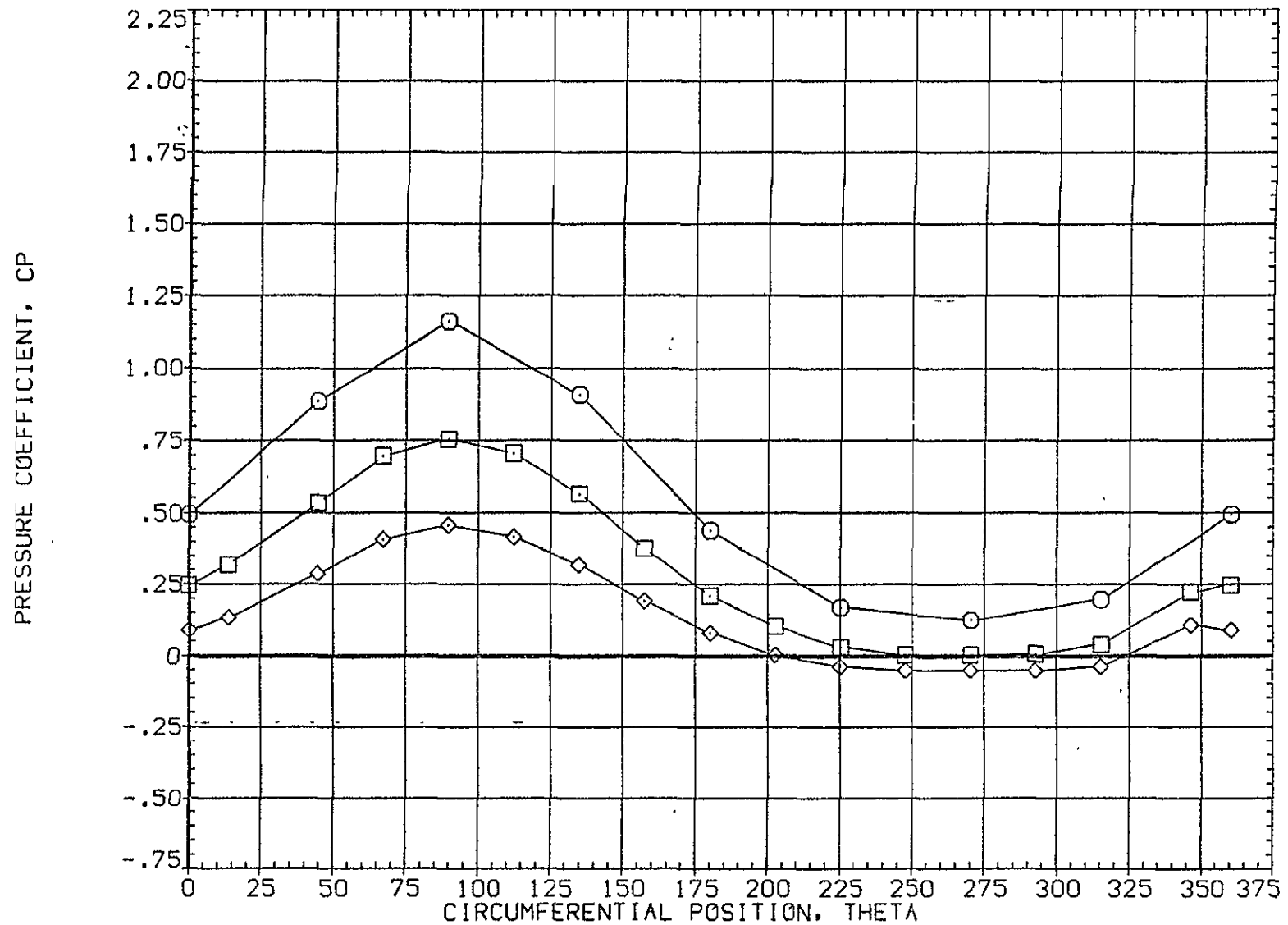


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.610	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 270.000

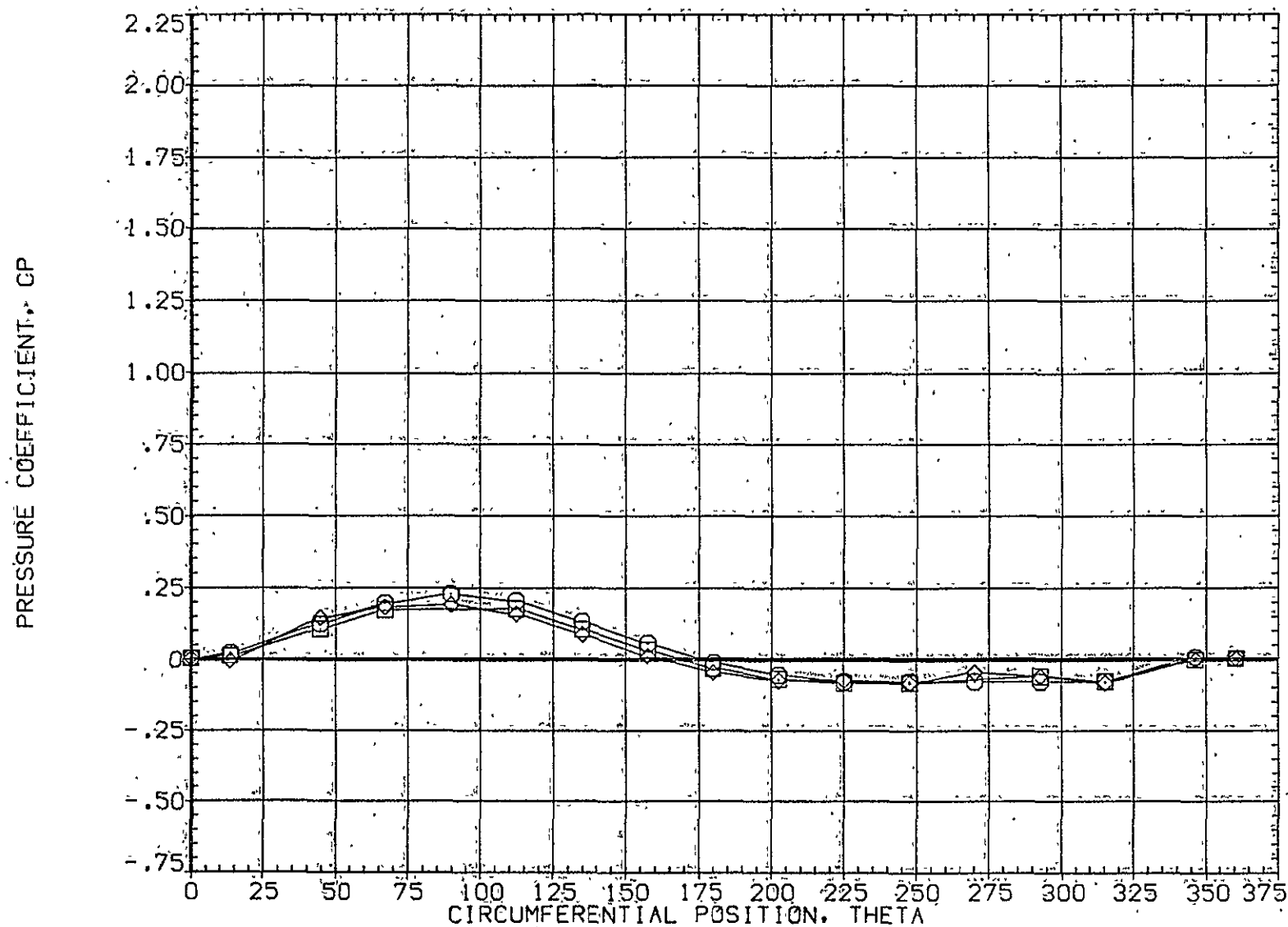


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

C. 4

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A058)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.610	20.610	3.480	.000		20.000
□	.735			1.000	RH1	270.000
◇	.860					

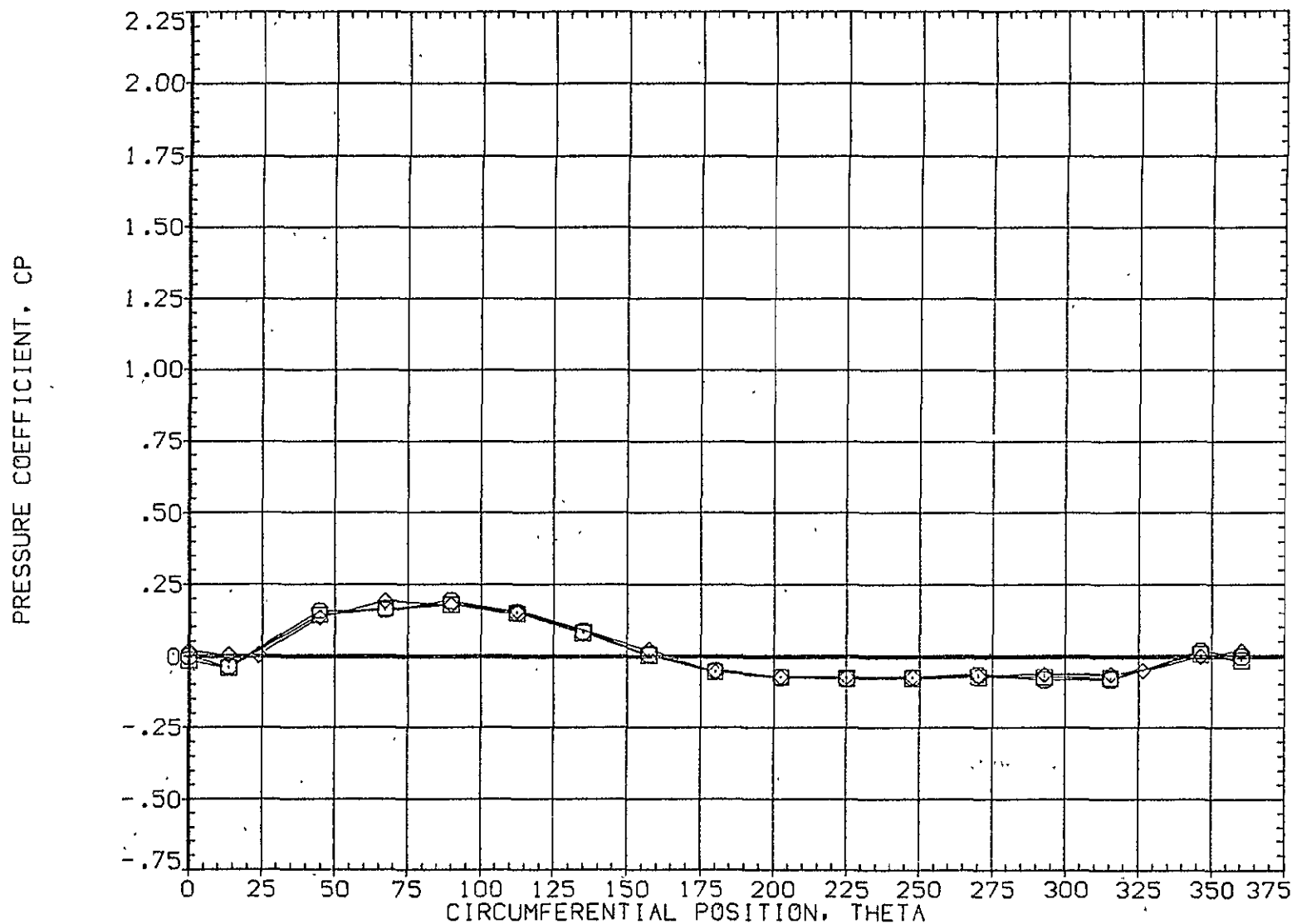


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	20.610	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

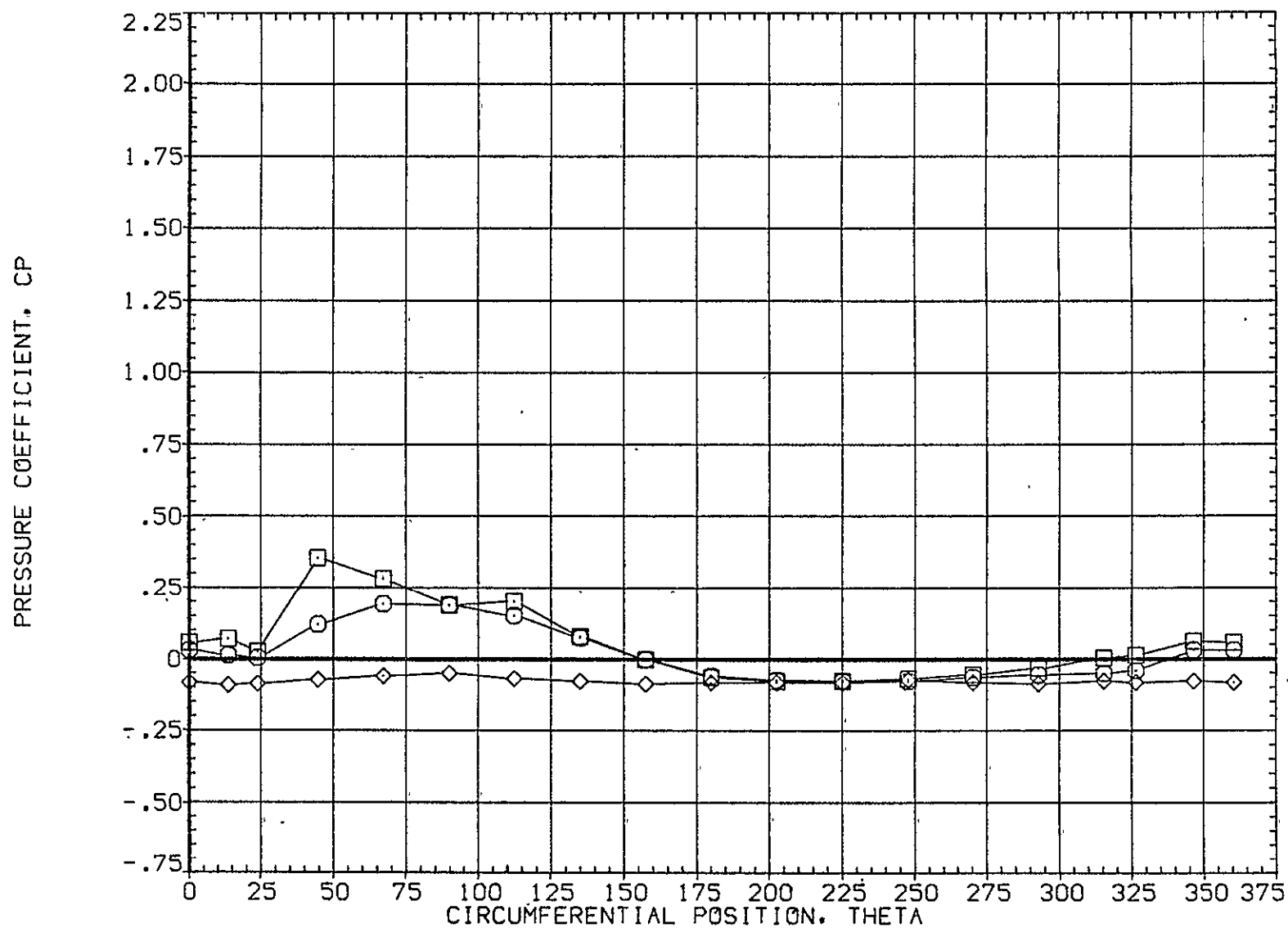


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	24.680	3.480
□	.108		
◇	.162		

PARAMETRIC VALUES		
BETA	OFFSET	20.000
MOUNT	PHI	270.000

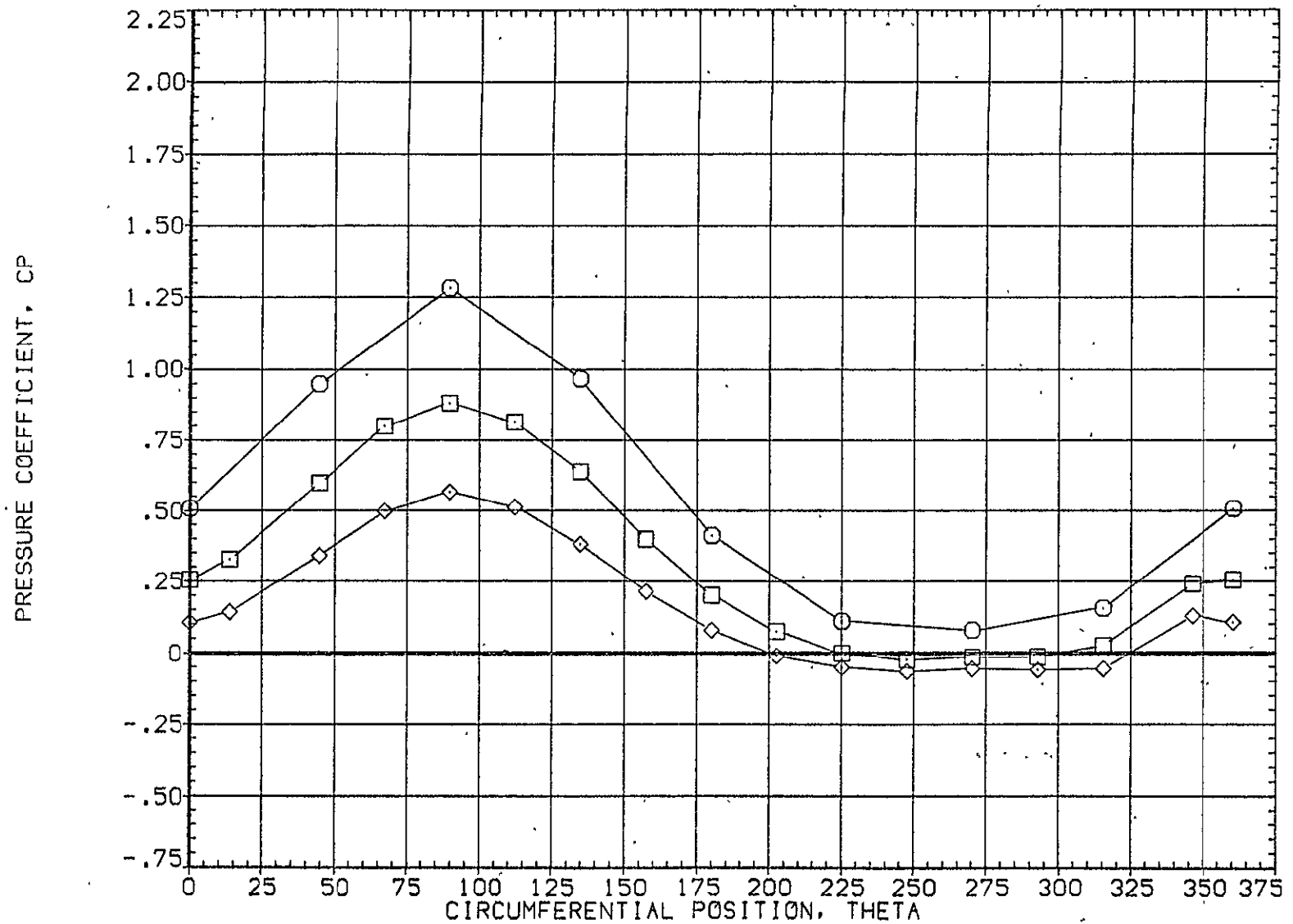


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
				MOUNT	1.000	PHI	270.000

○
□
◇

.216
.322
.518

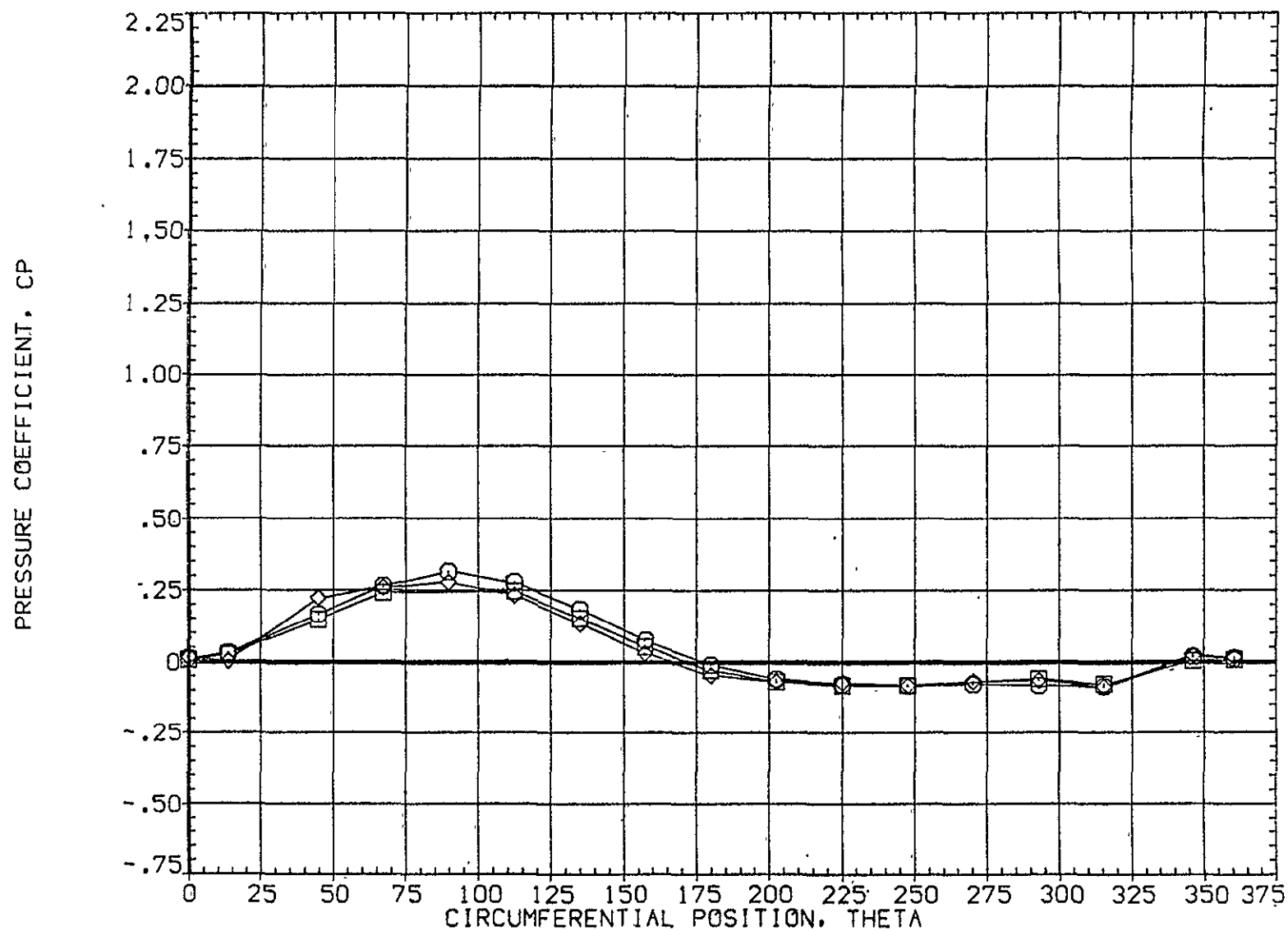


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	24.680	3.480	BETA	.000	OFFSET	20.000
□	.735			MOUNT	1.000	PHI	270.000
◇	.860						

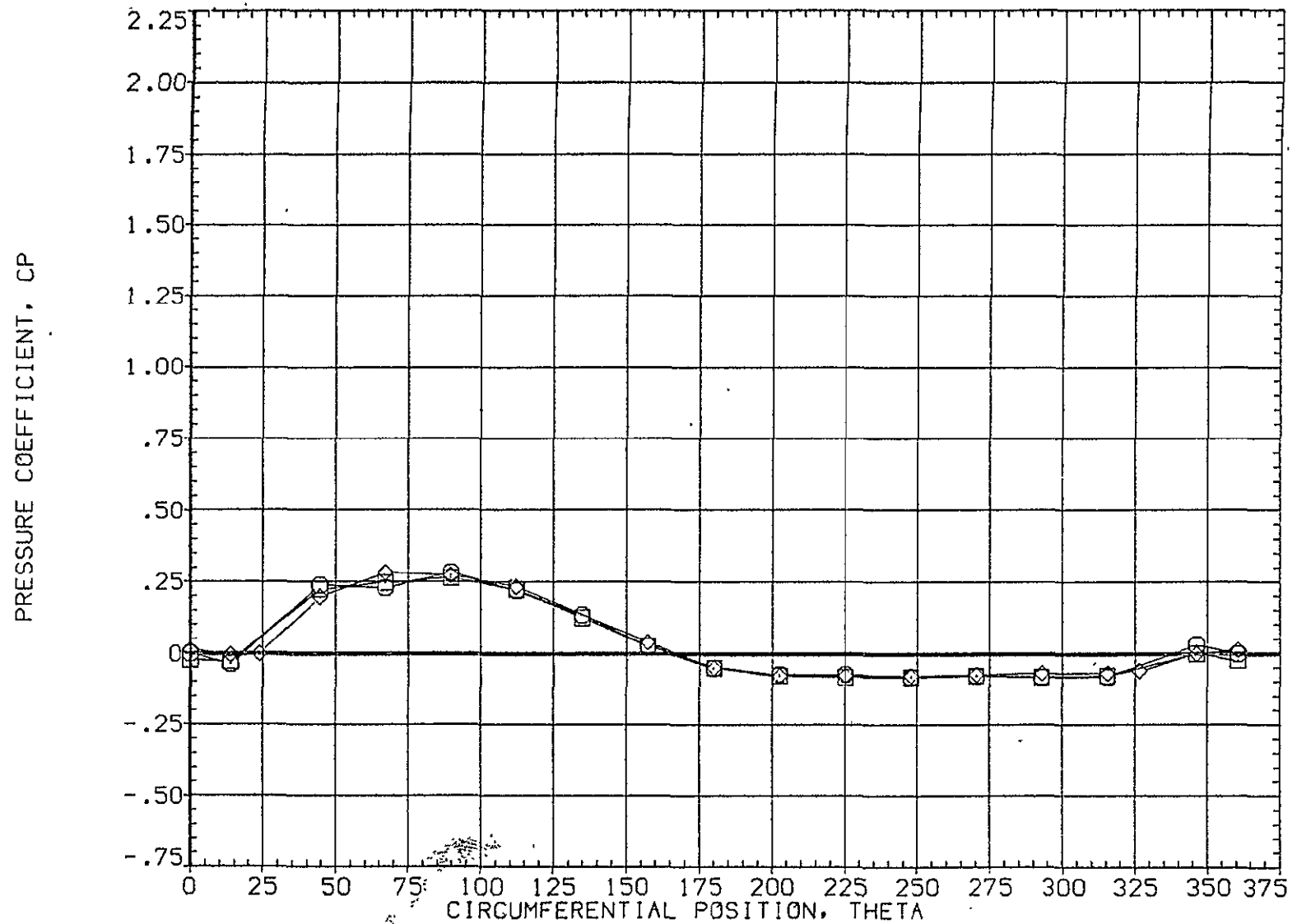


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

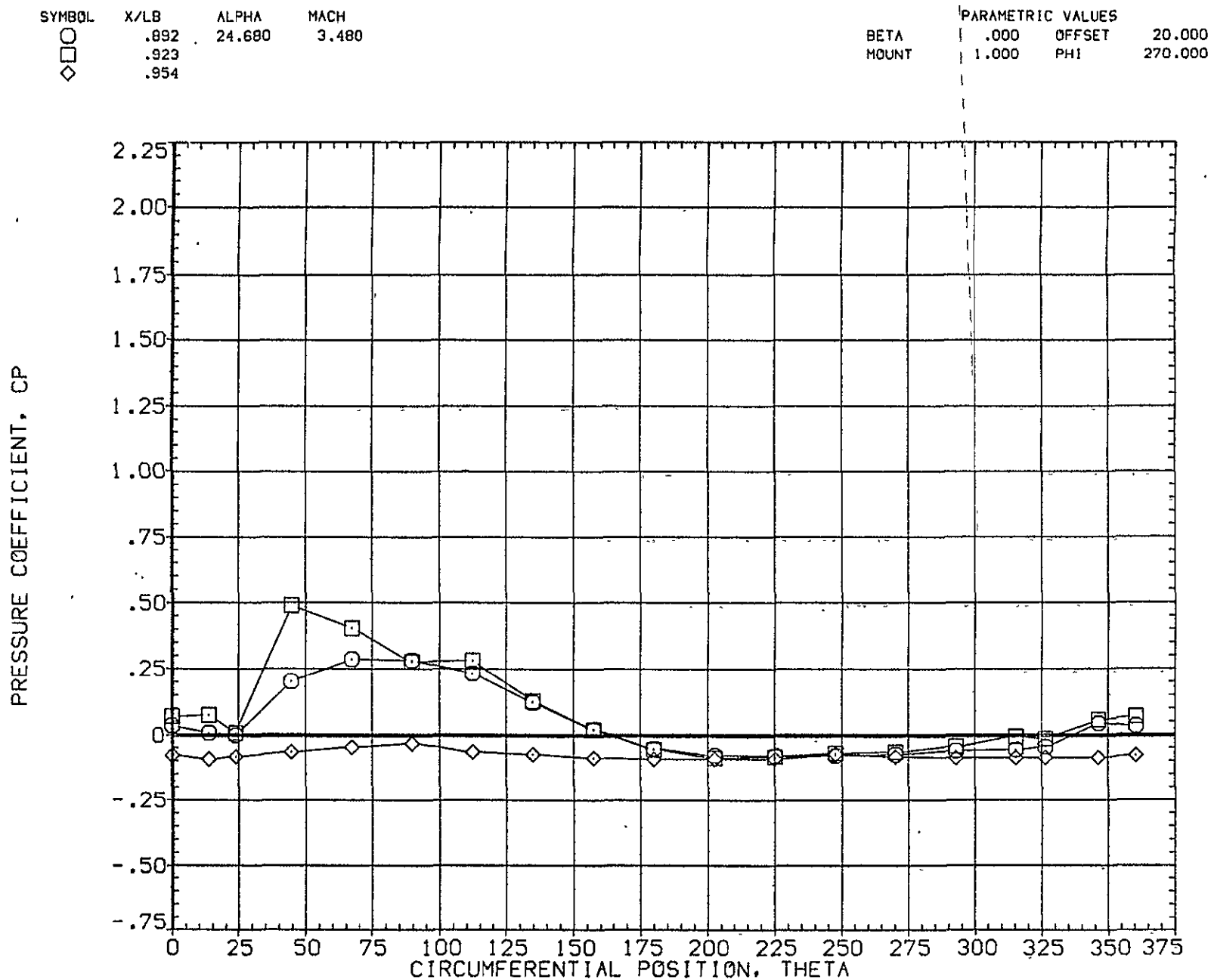


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC.596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A060)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	28.700	3.480	MOUNT	.000 OFFSET 20.000
□	.108				1.000 PHI 270.000
◇	.162				

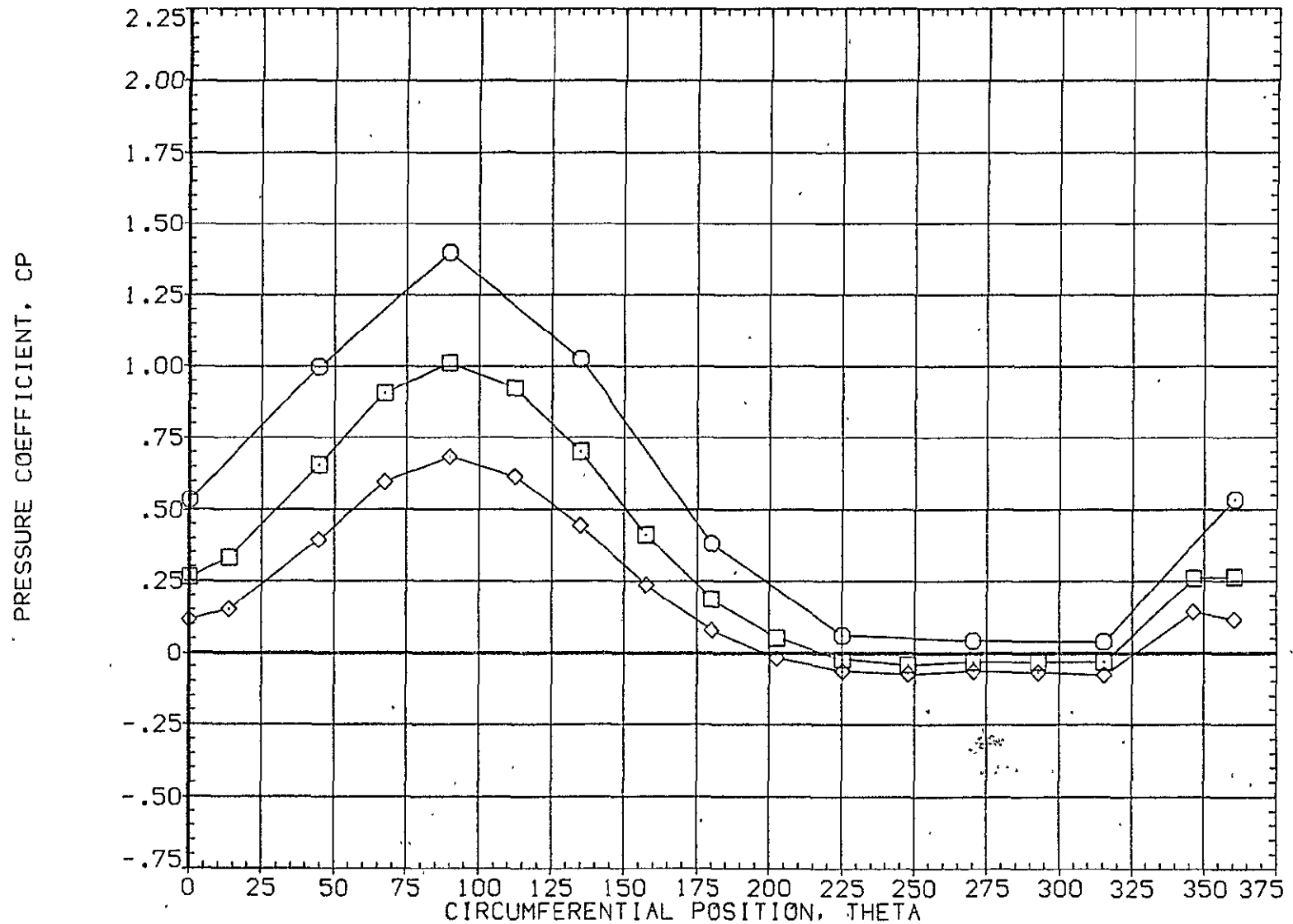


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL ◇ □ ○	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 270.000
	.216	29.700	3.480			
	.322					
	.518					

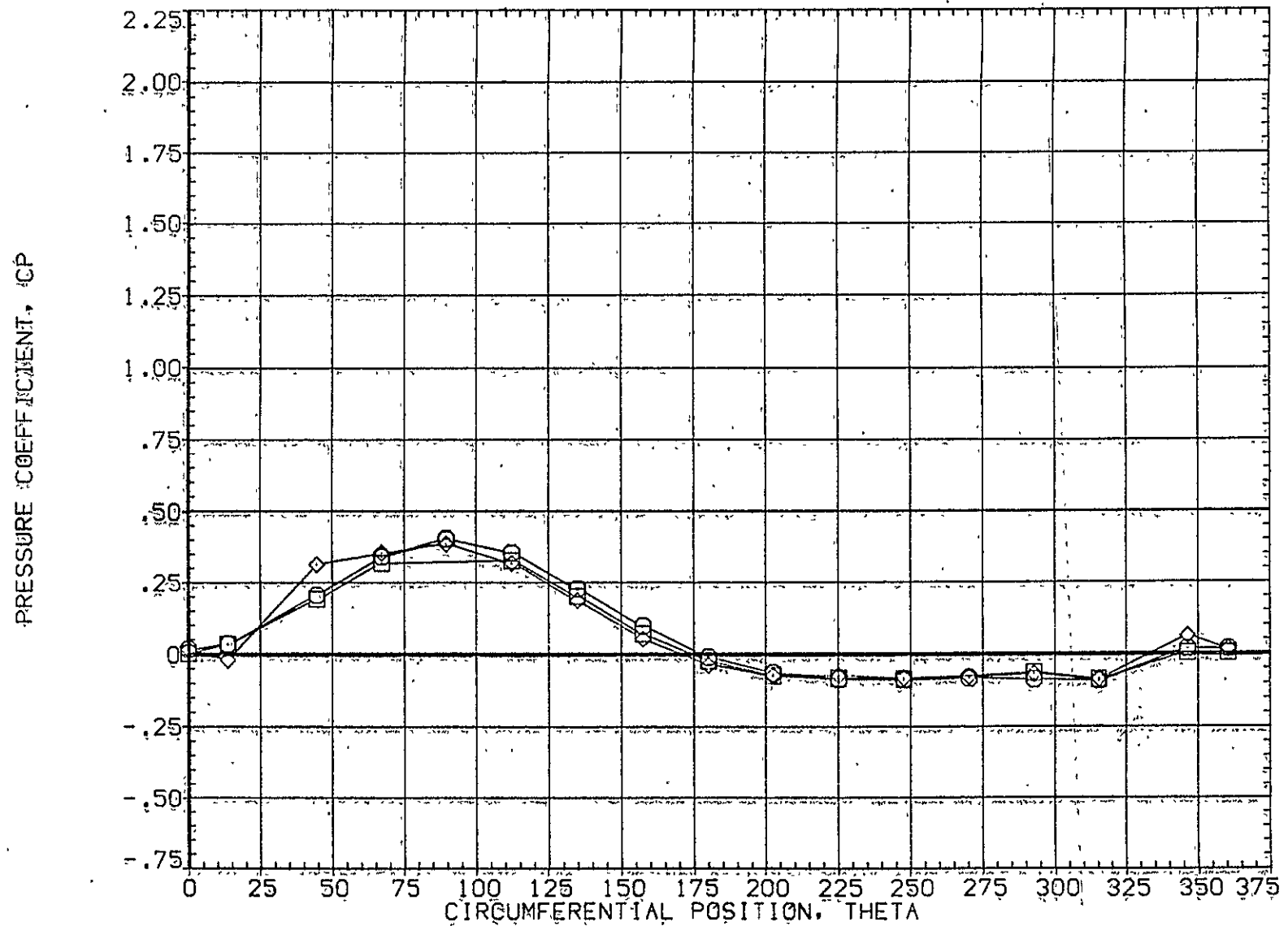


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A060)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	28.700	3.480	.000	OFFSET 20.000
□	.735			1.000	PHI 270.000
◇	.860				

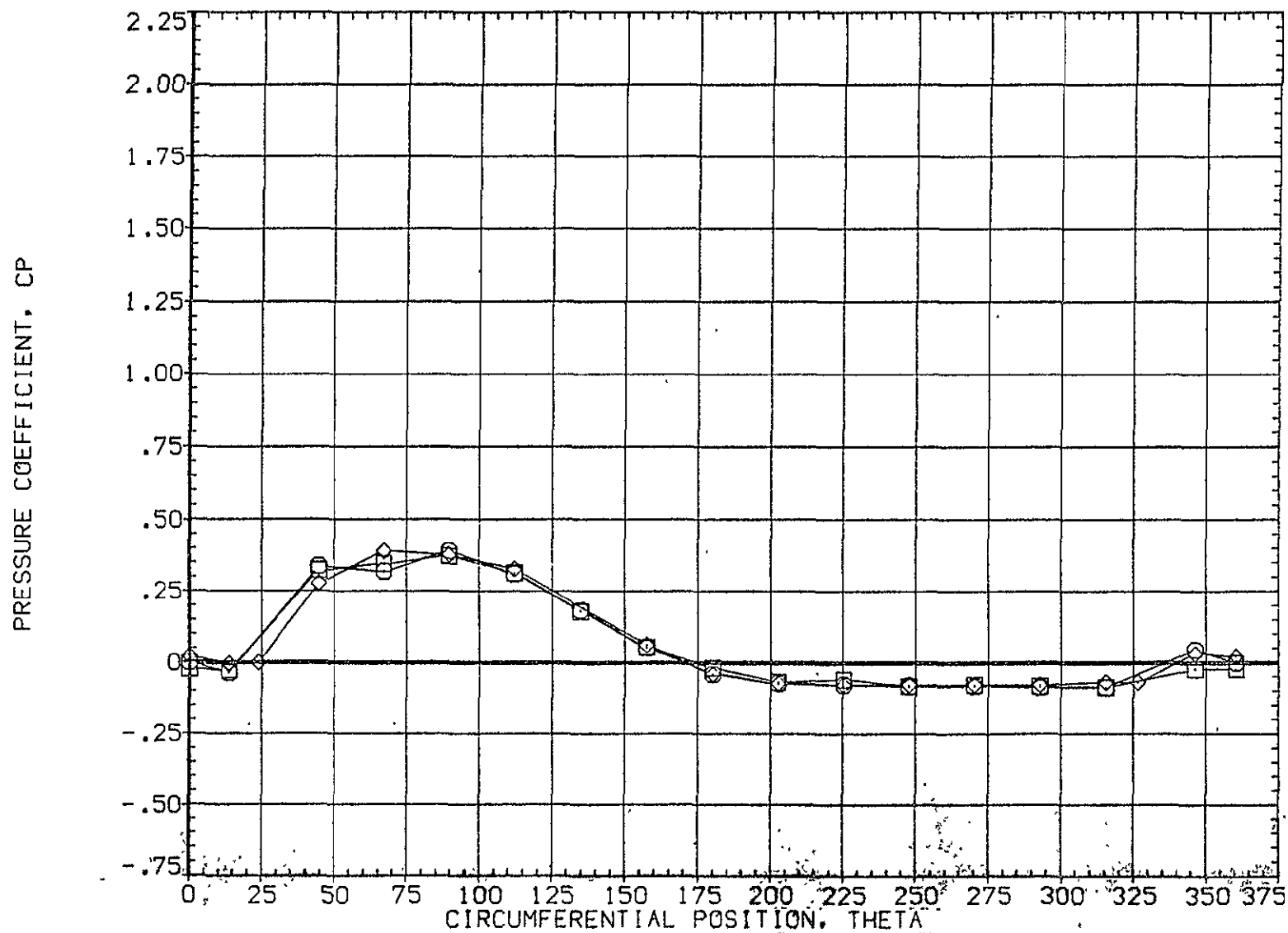


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET-T1 WITH PROTUBERANCES

SYMBOL	X/L0	ALPHA	MACH	PARAMETRIC VALUES		
○	.892	28.700	3.480	BETA	.000	OFFSET 20.000
□	.923			MOUNT	1.000	PHI 270.000
◇	.954					

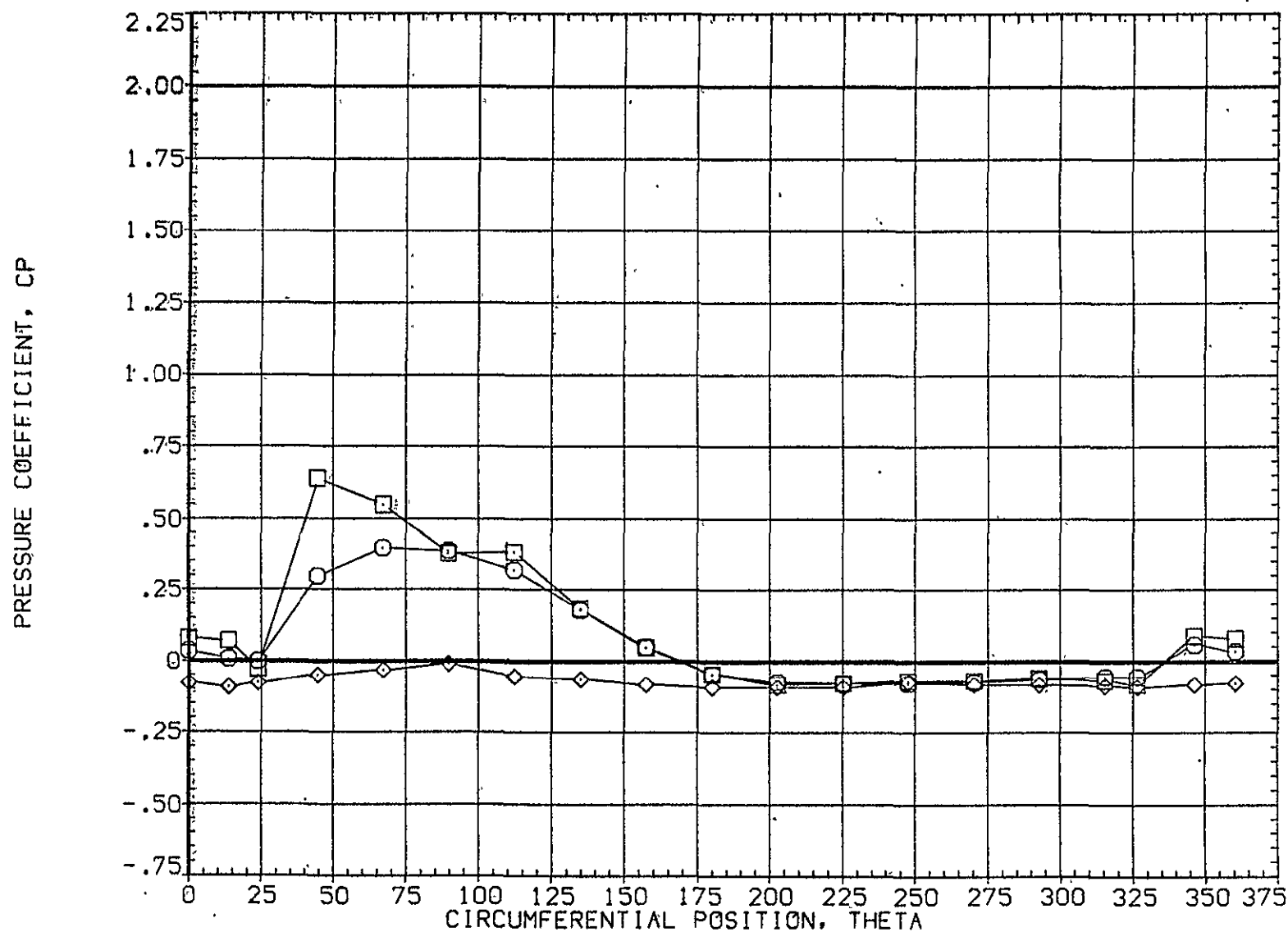


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	-8.360	3.480	MOUNT	.000		.000
□	.108				1.000		315.000
◇	.162						

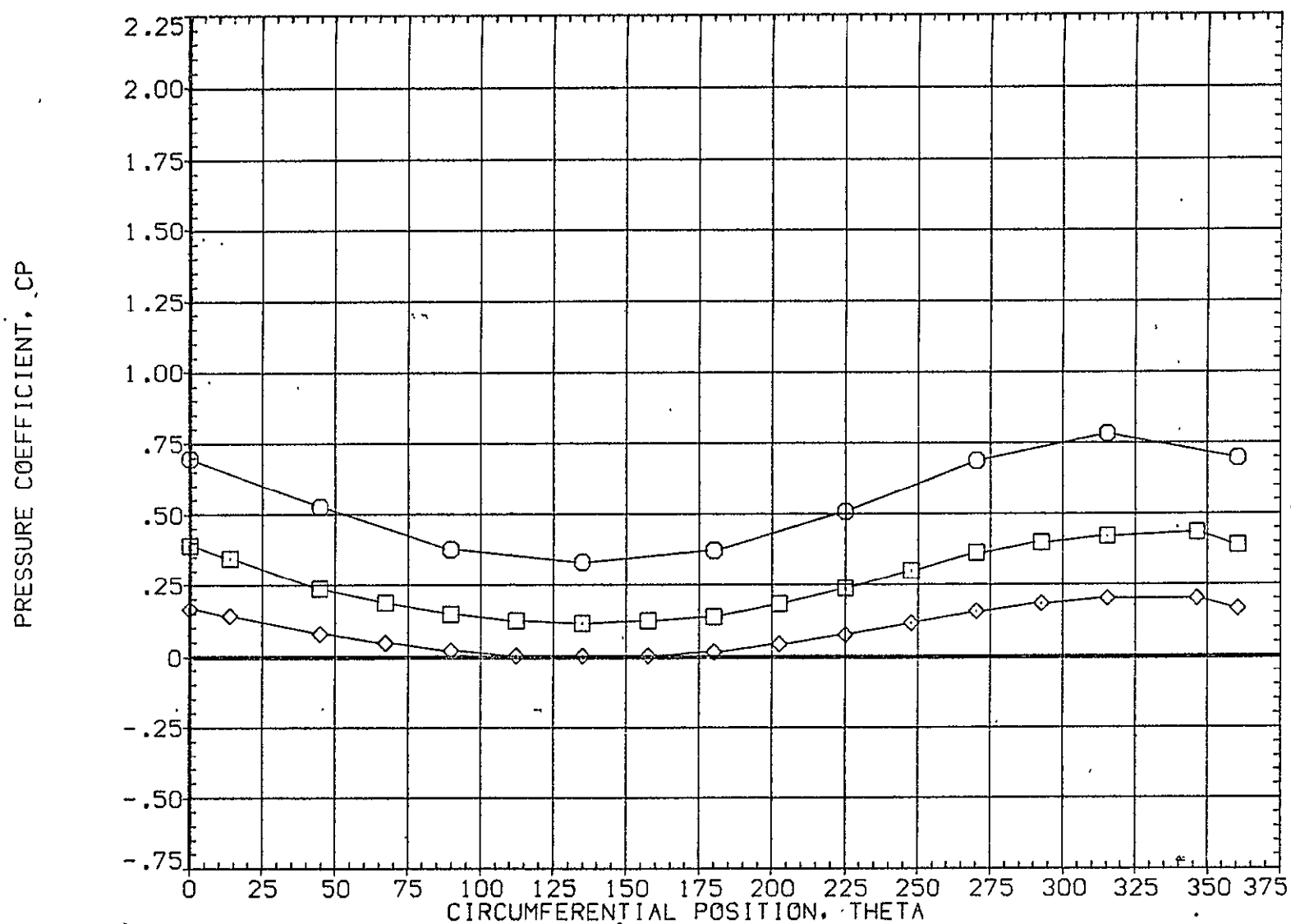


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-8.360	3.480	.000	.000	
□	.322			1.000	PHI	315.000
◇	.518					

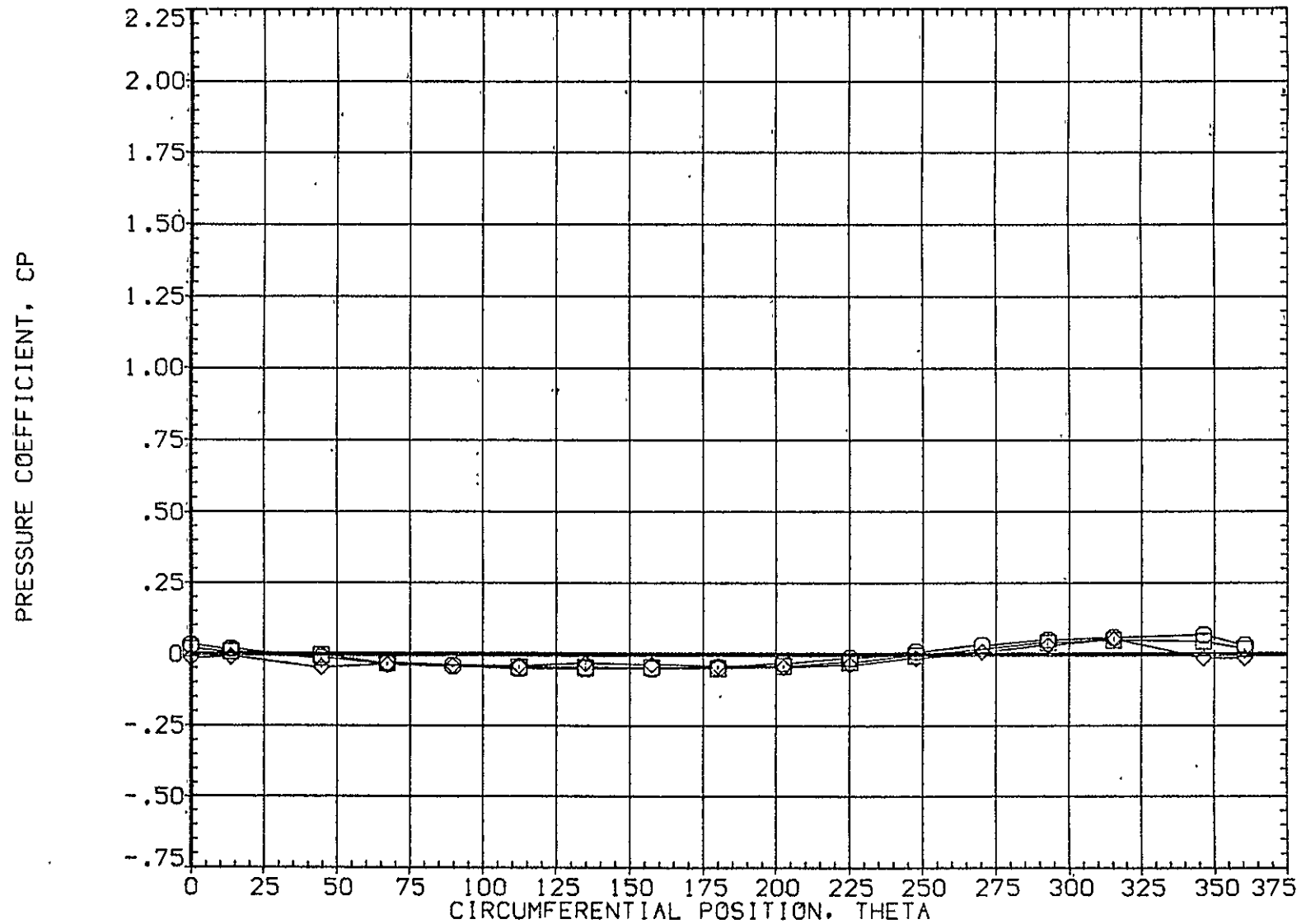


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A091)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-8.360	3.480	MOUNT	.000	PHI	.000
□	.735				1.000		315.000
◇	.860						

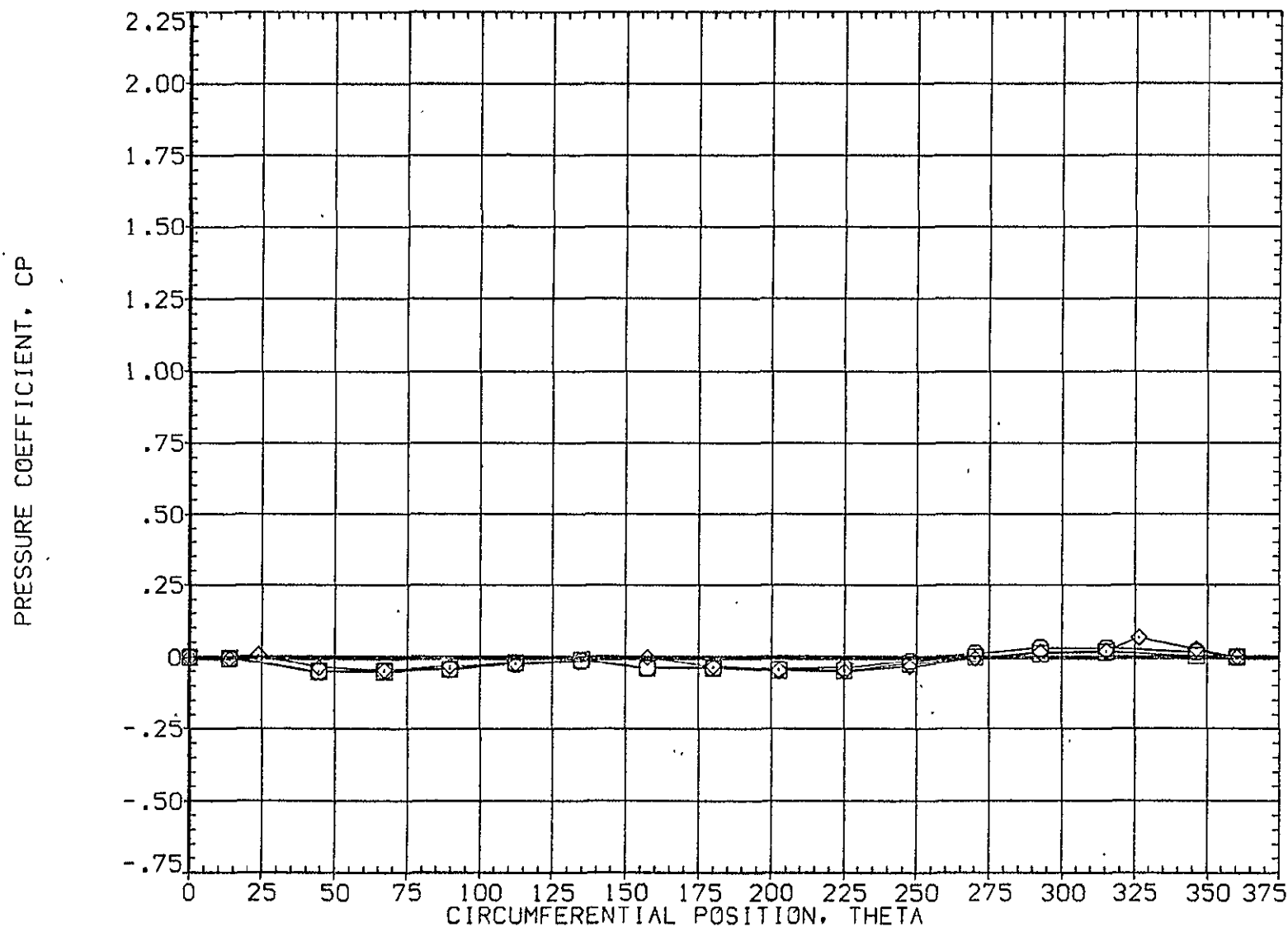


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.892	-8.360	3.480	MOUNT	.000	OFFSET	.000
□	.923				1.000	PHI	315.000
◇	.954						

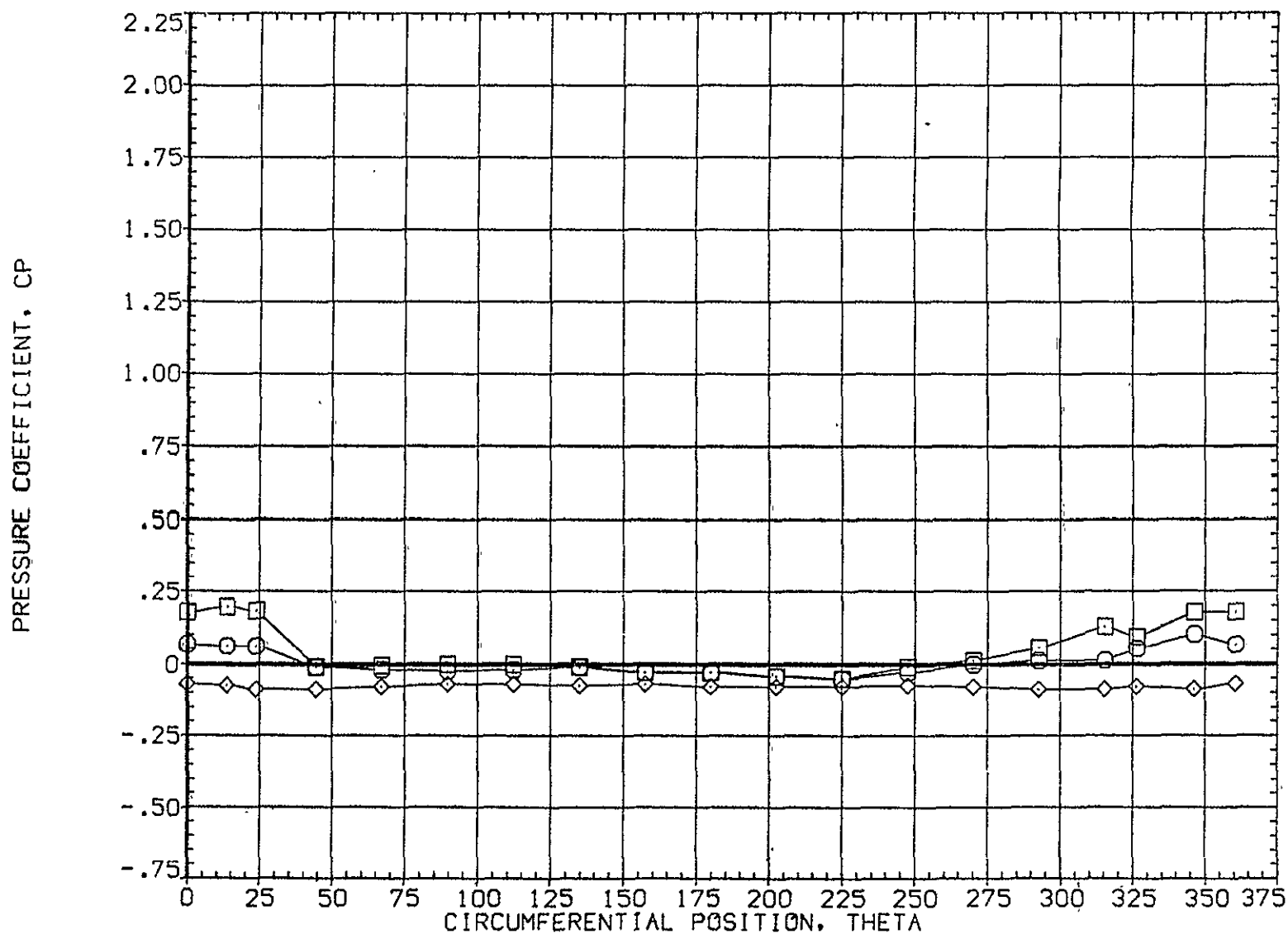


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	-4.330	3.480	.000	.000	.000
□	.108			1.000	PHI	315.000
◇	.162					

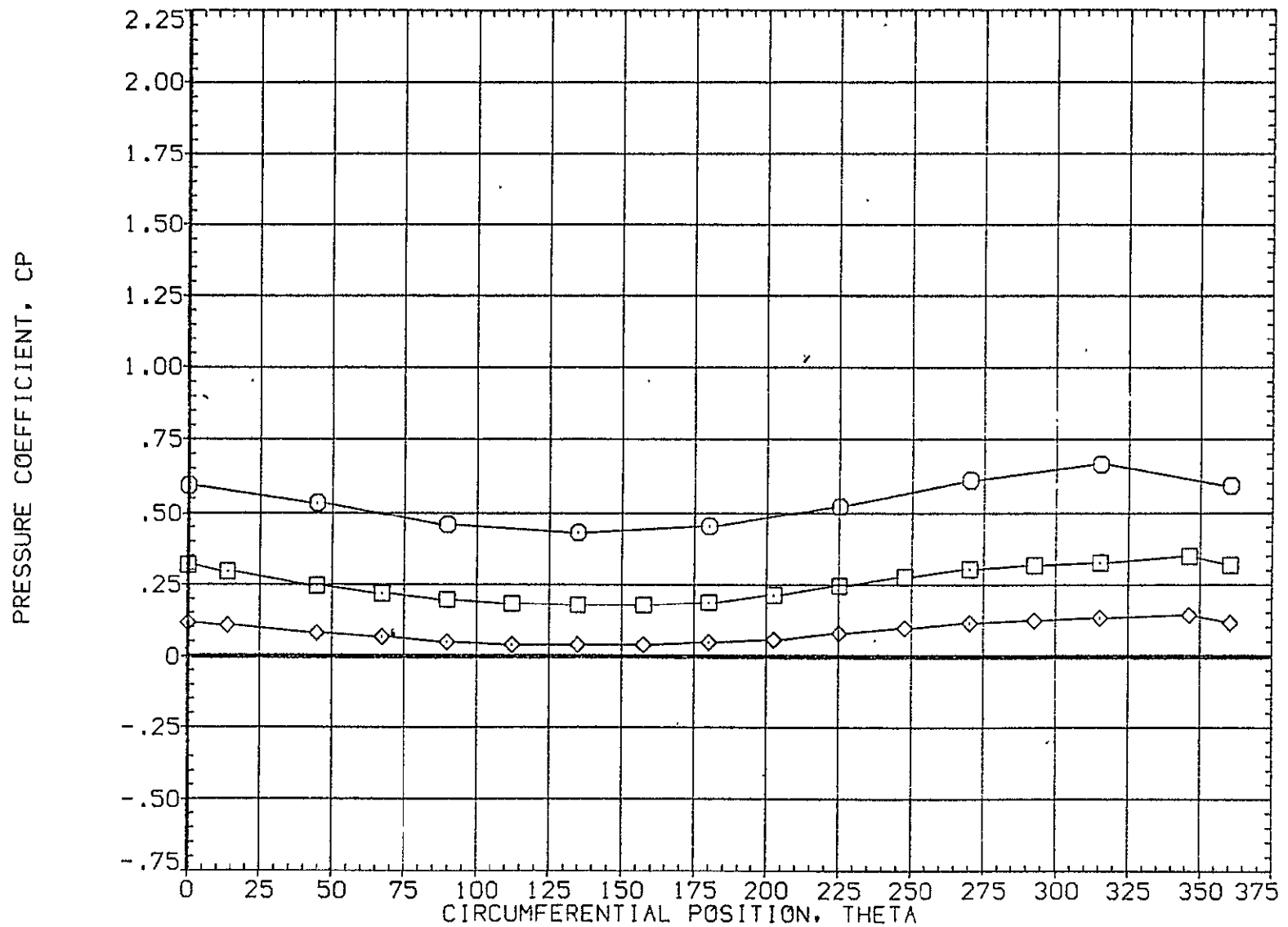


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 315.000
○	.216	-4.330	3.480			
□	.322					
◇	.518					

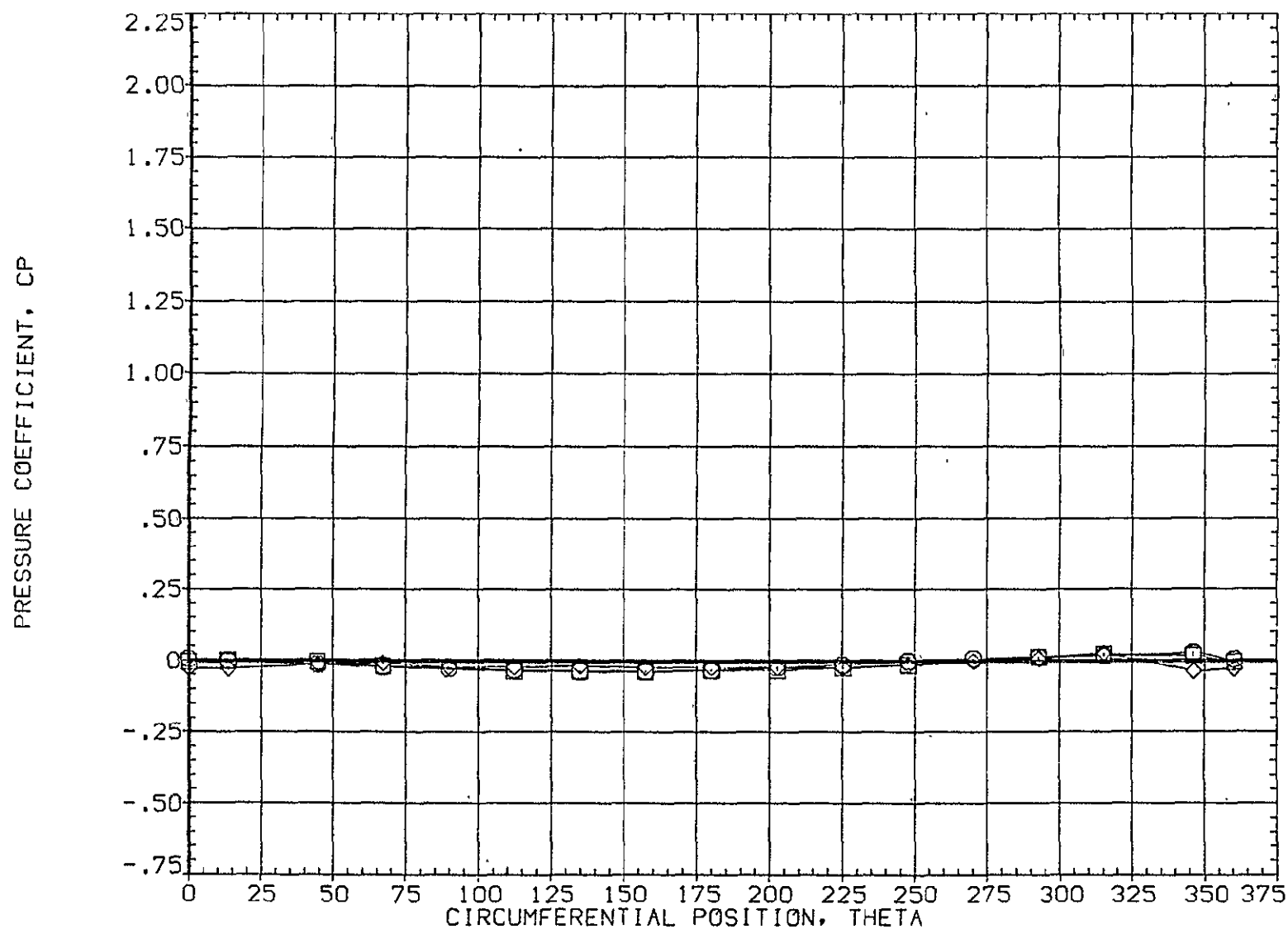


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-4.330	3.480	.000		.000	
□	.735			1.000	PHI	315.000	
◇	.860						

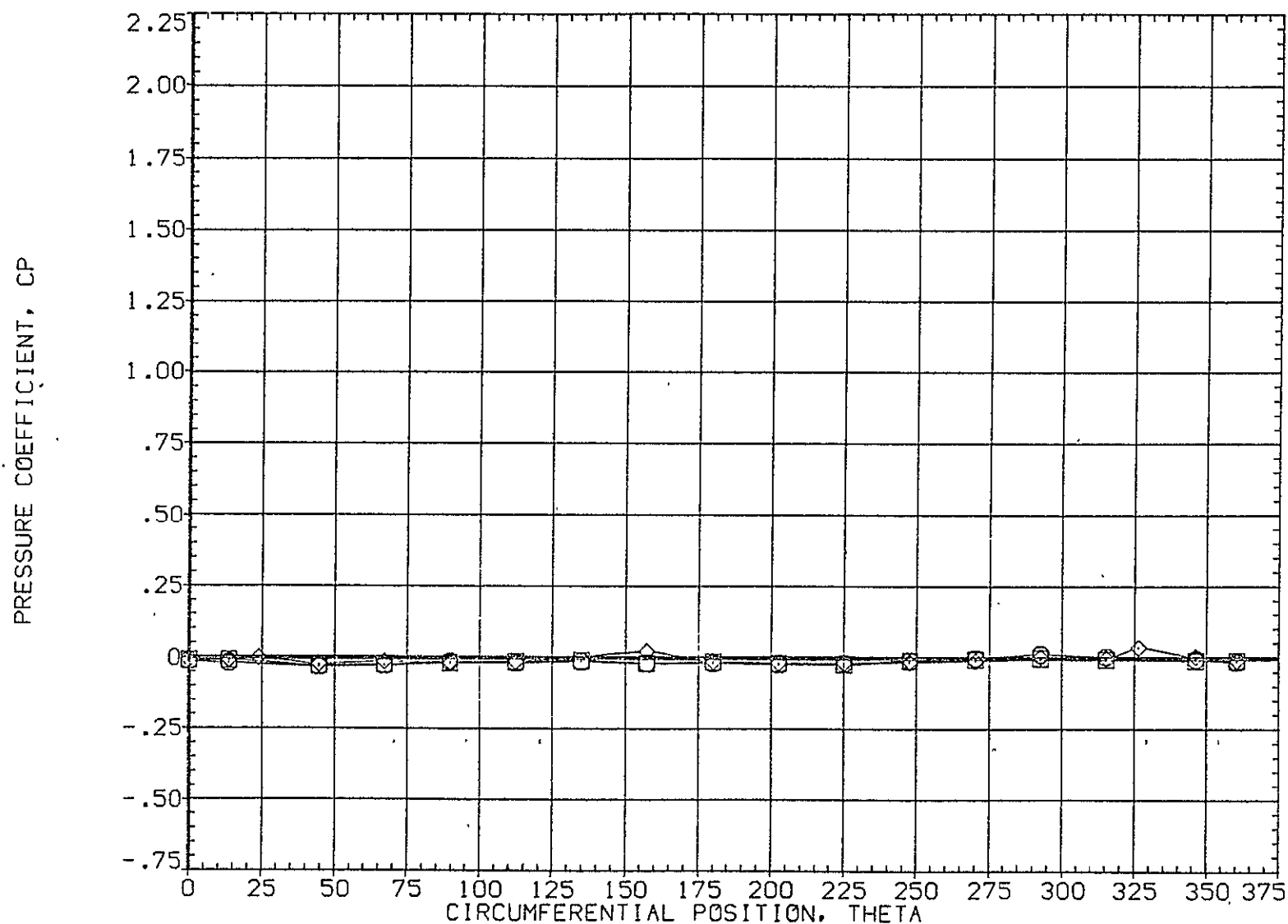


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	-4.330	3.480		.000	.000	
□	.923			MOUNT	1.000	PHI	315.000
◇	.954						

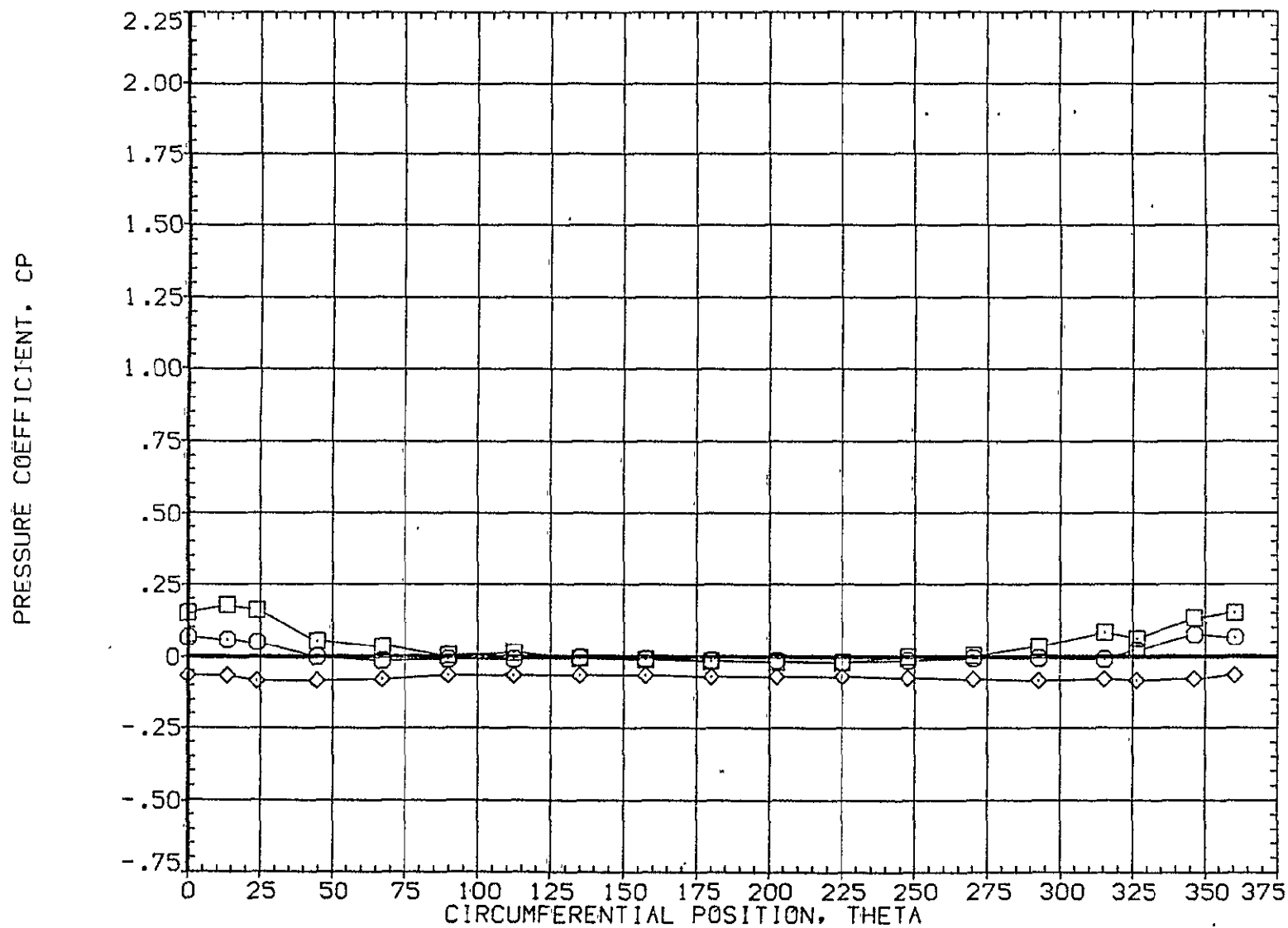


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A093)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-.280	3.480	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	315.000
◇	.162						

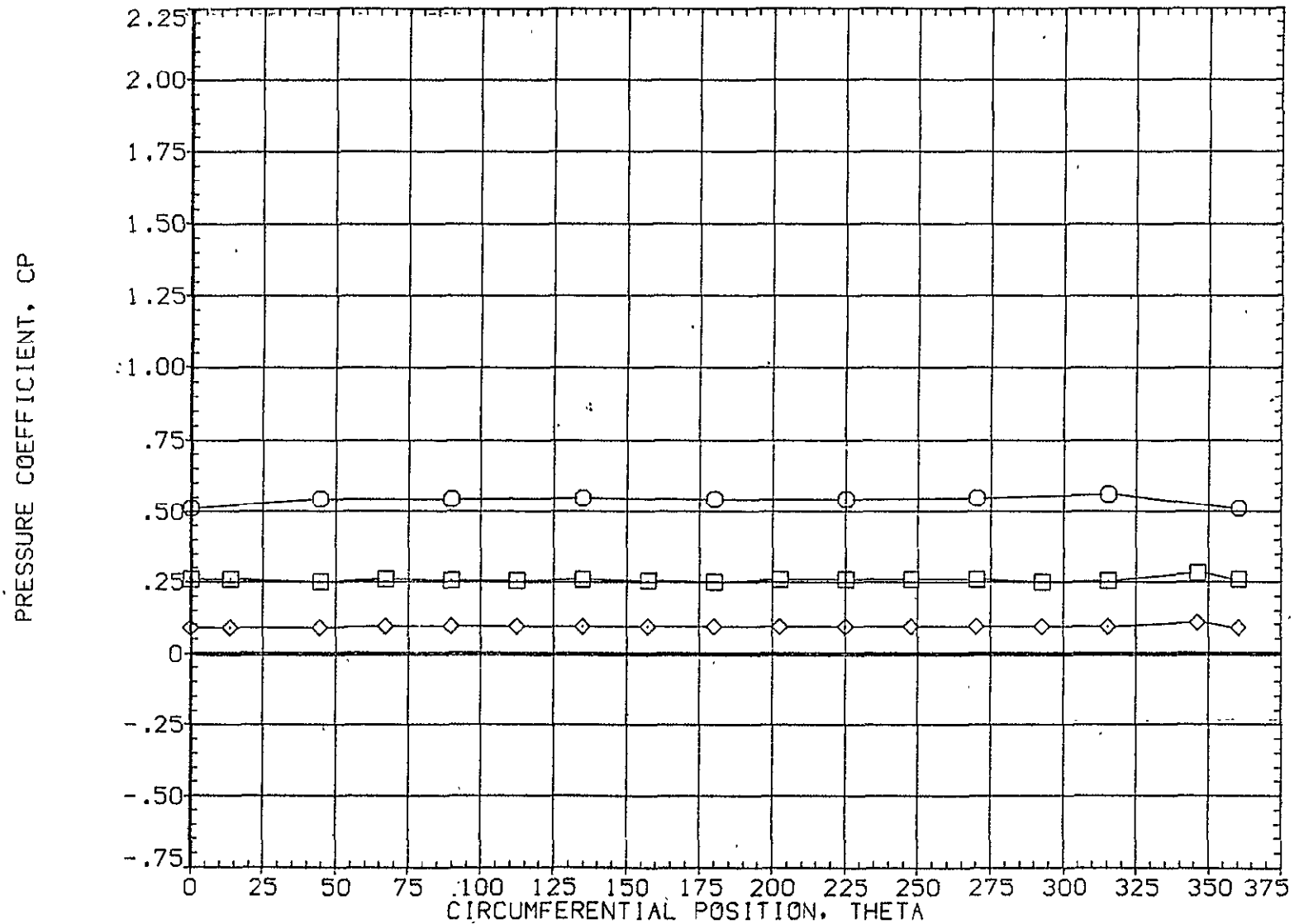


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	VALUE PHI
○	.216	-.280	3.480	.000	.000	.000
□	.322			1.000		315.000
◇	.518					

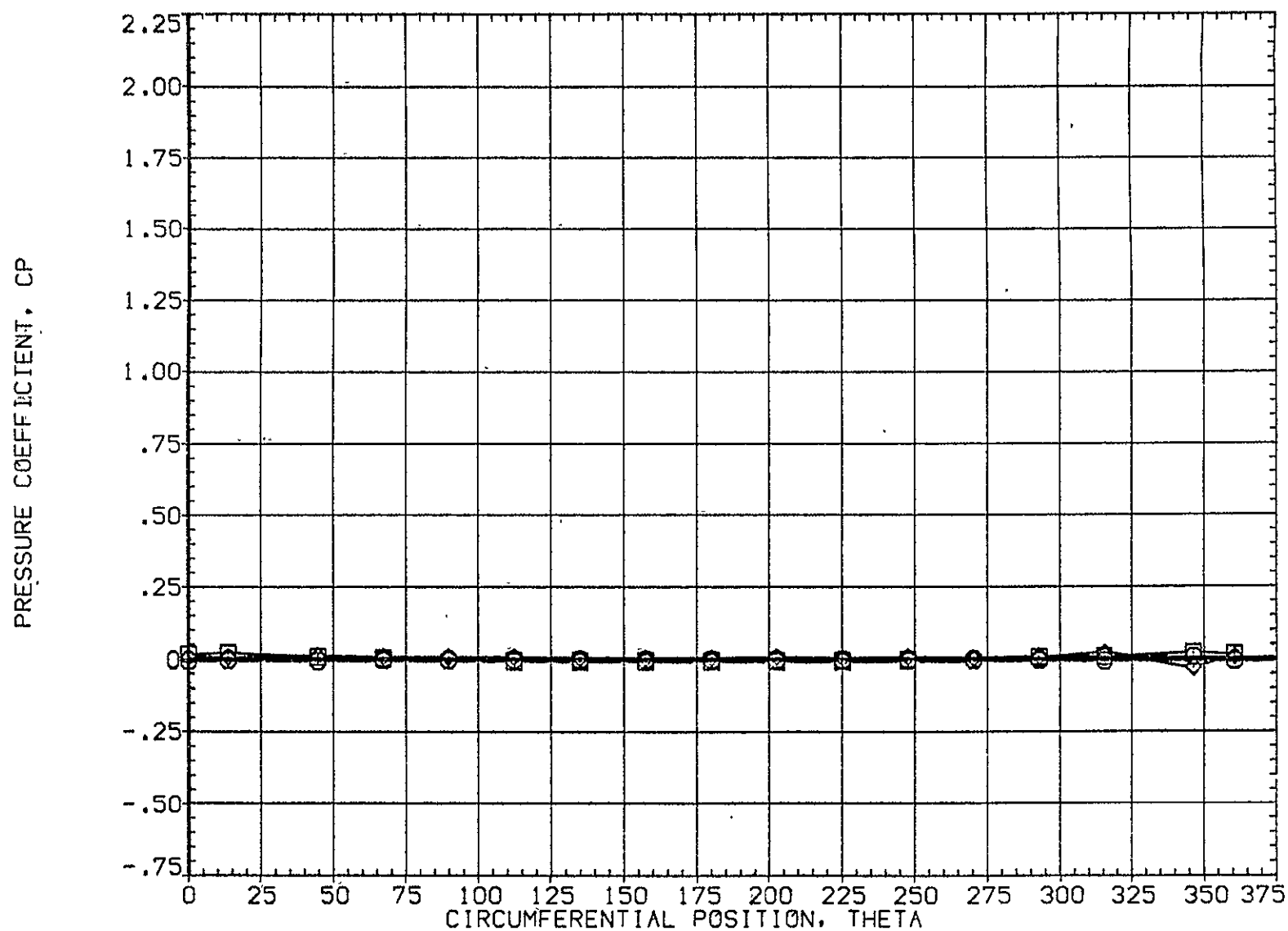


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-.280	3.480	---	.000		.000
□	.735				1.000	PHI	315.000
◇	.860						

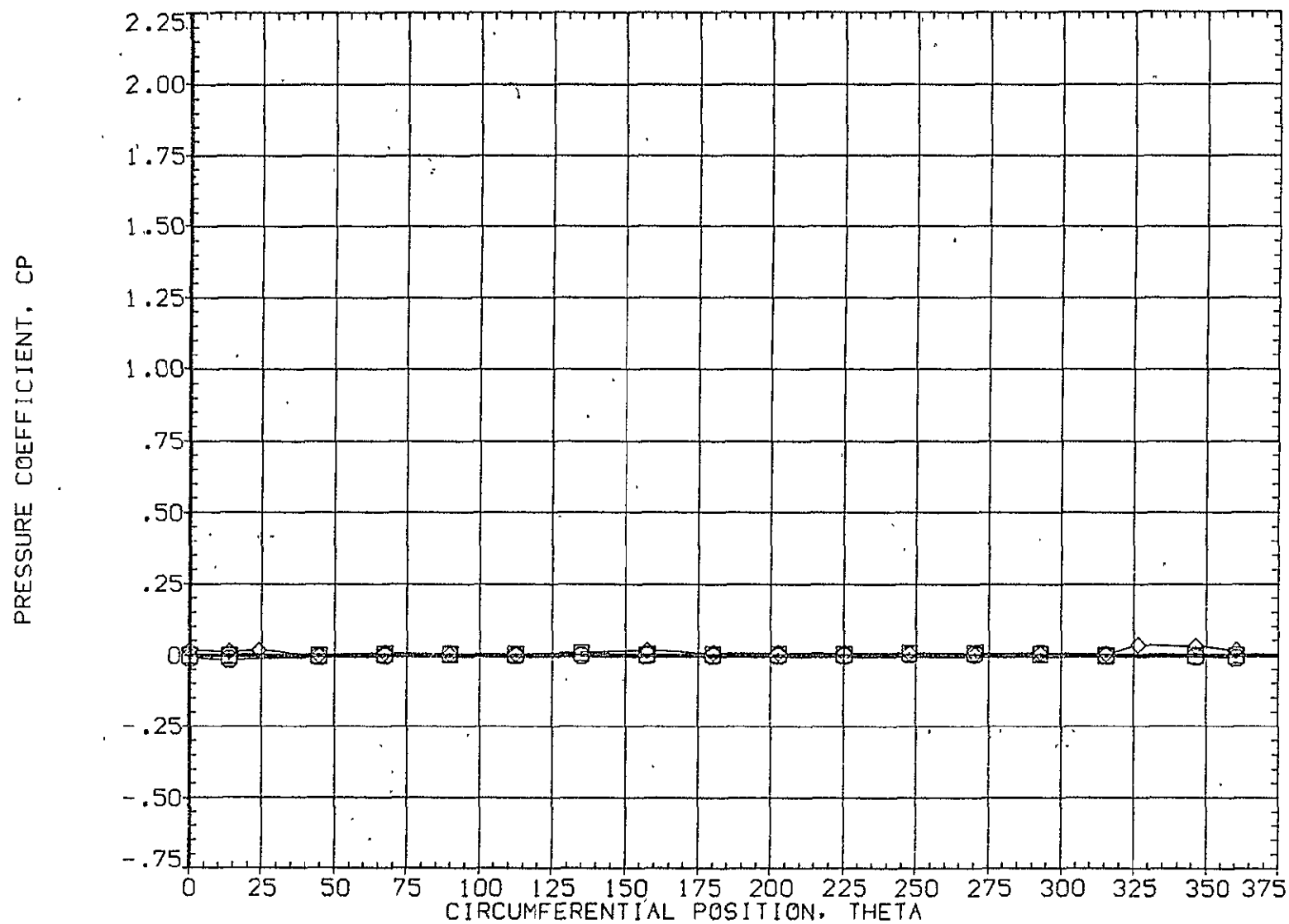


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.892	-.280	3.480	.000	OFFSET .000
□	.923			1.000	PHI 315.000
◇	.954				

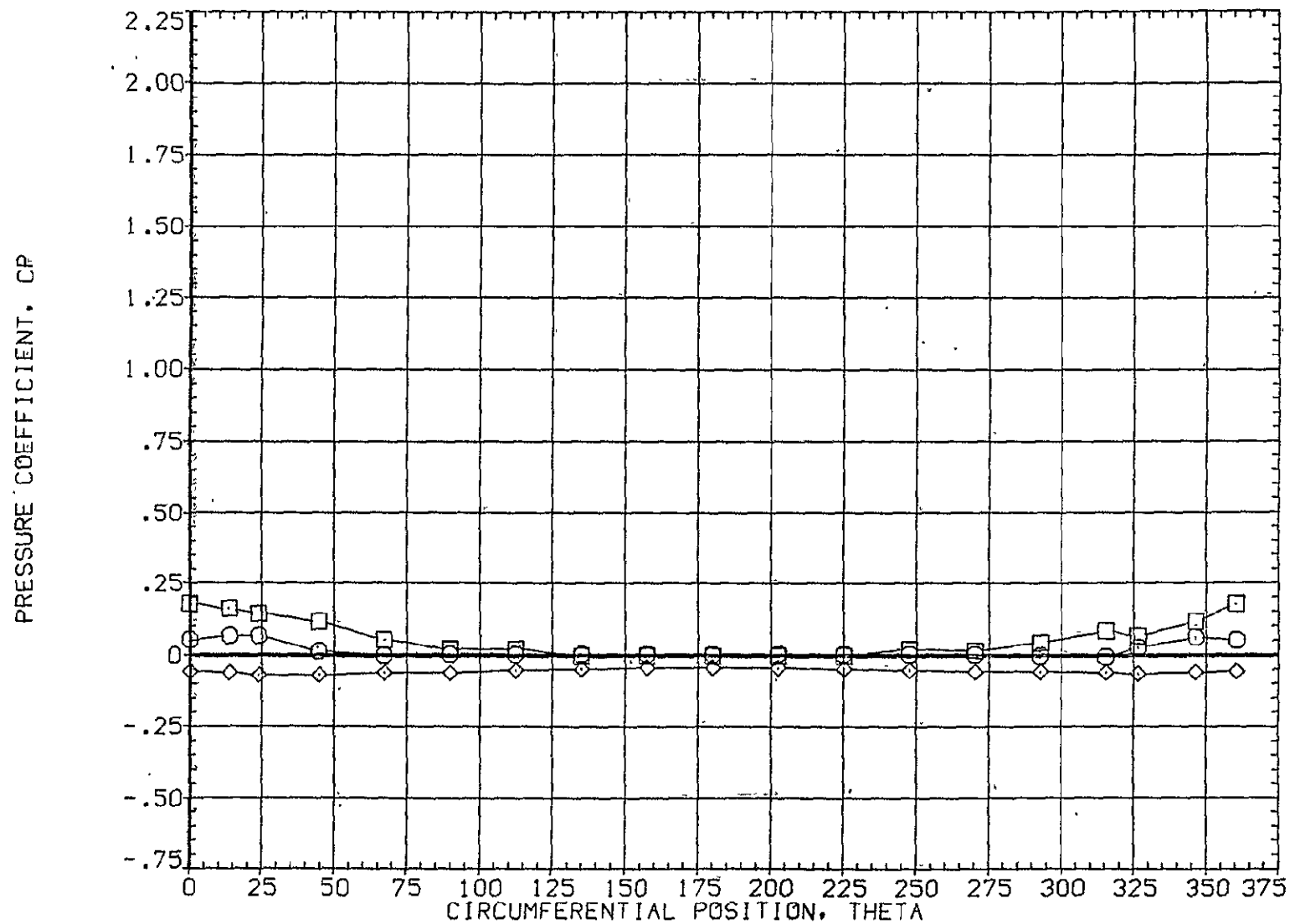


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	3.770	3.480
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	315.000

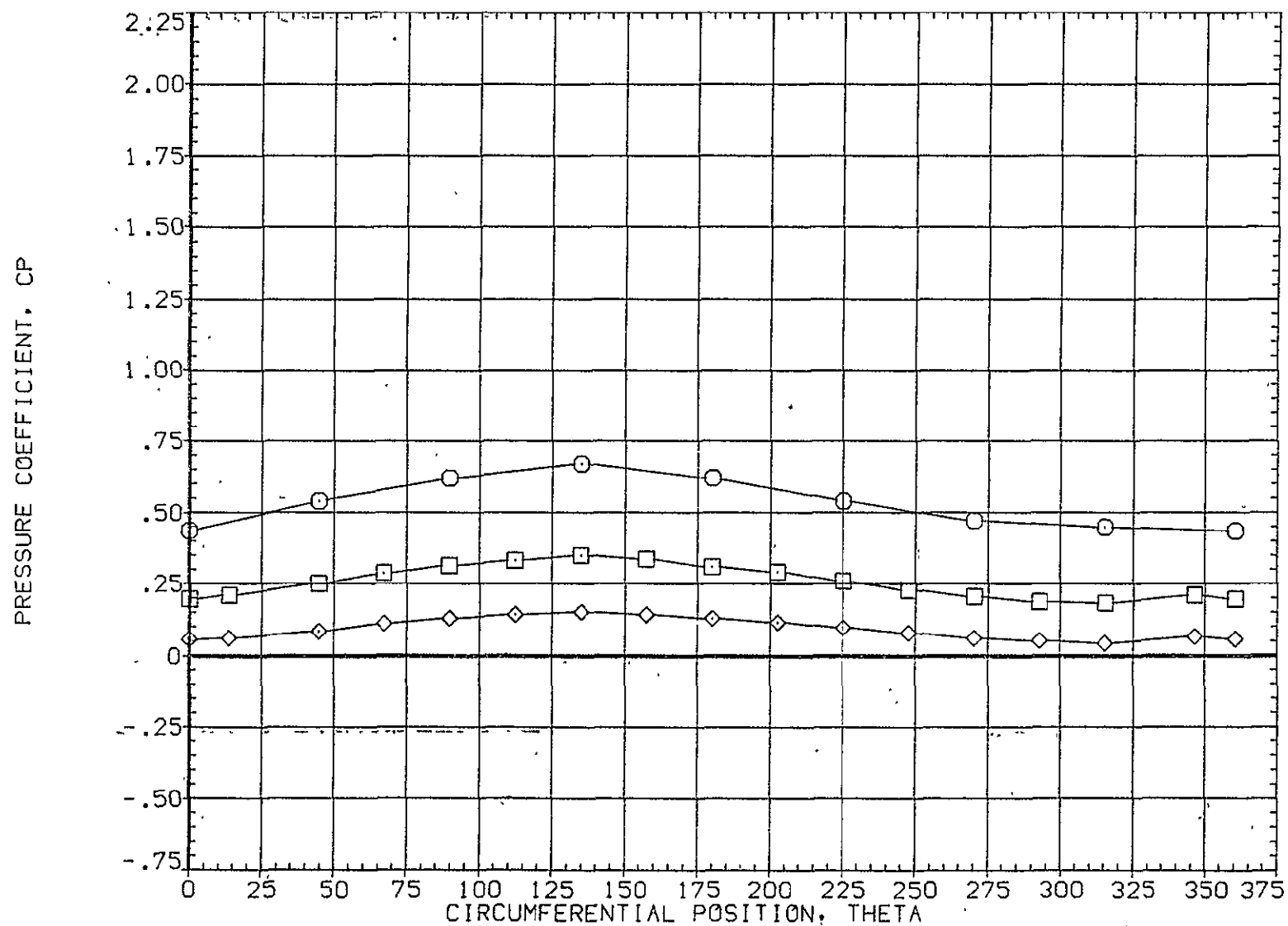


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.216	3.770	3.480	.000	.000	.000
□	.322			1.000		315.000
◇	.518					

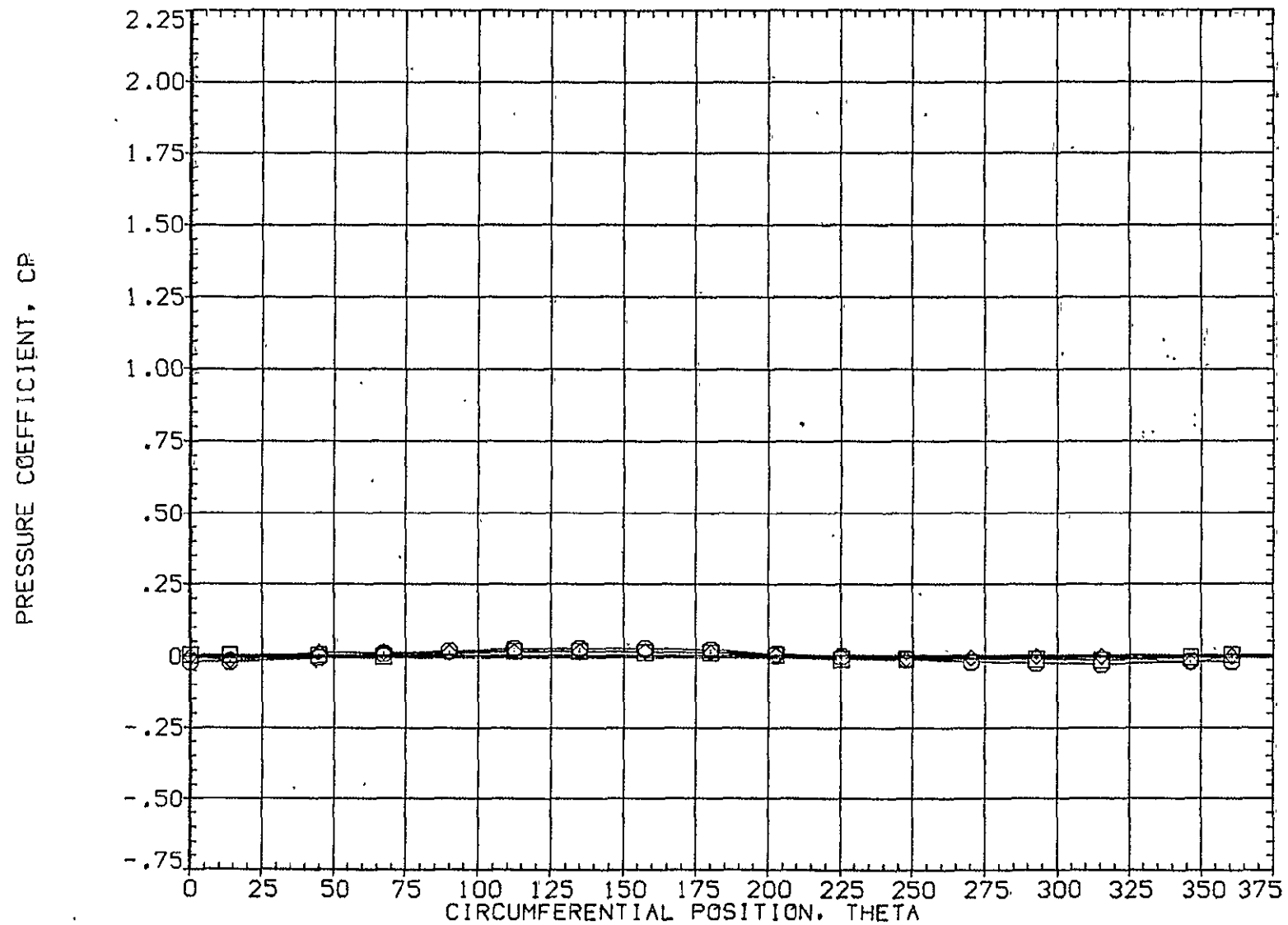


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A094)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
◇	.610	3.770	3.480	.000	1.000	PHI	.000
□	.735						315.000
◇	.860						

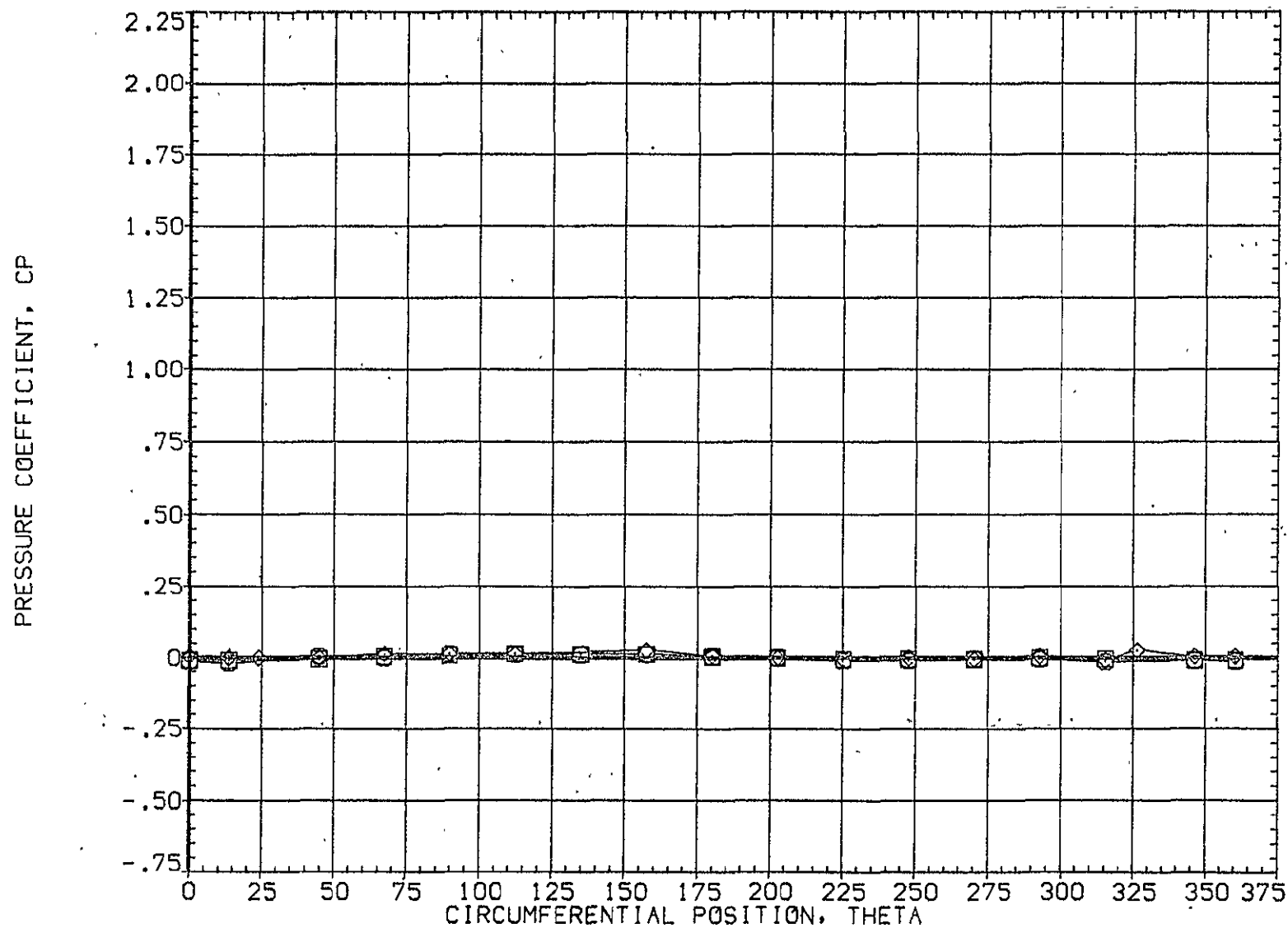


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.892	3.770	3.480	BETA	.000	OFFSET .000
□	.923			MOUNT	1.000	PHI 315.000
◇	.954					

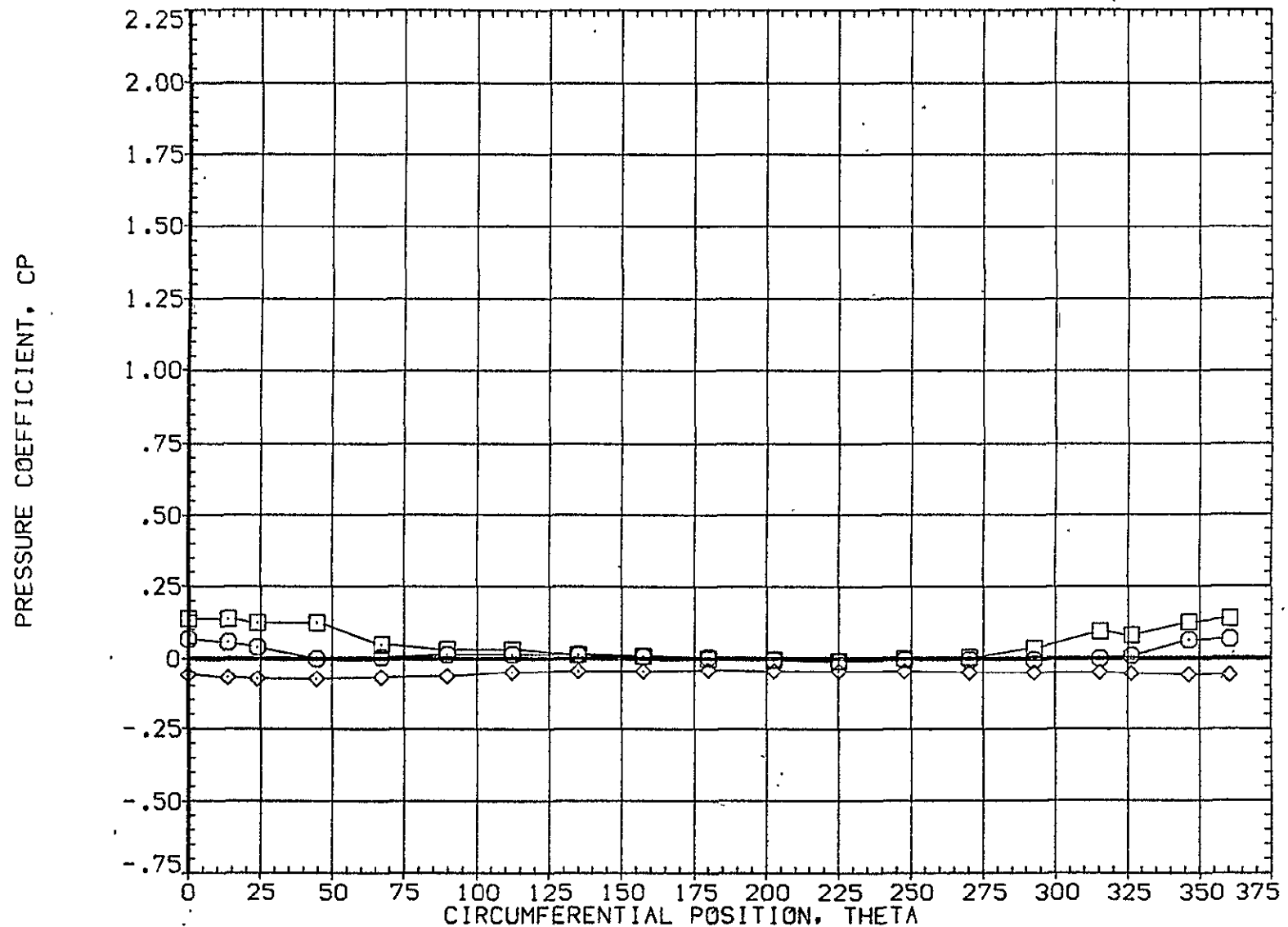


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 315.000
○	.055	7.600	3.480			
□	.108					
◇	.162					

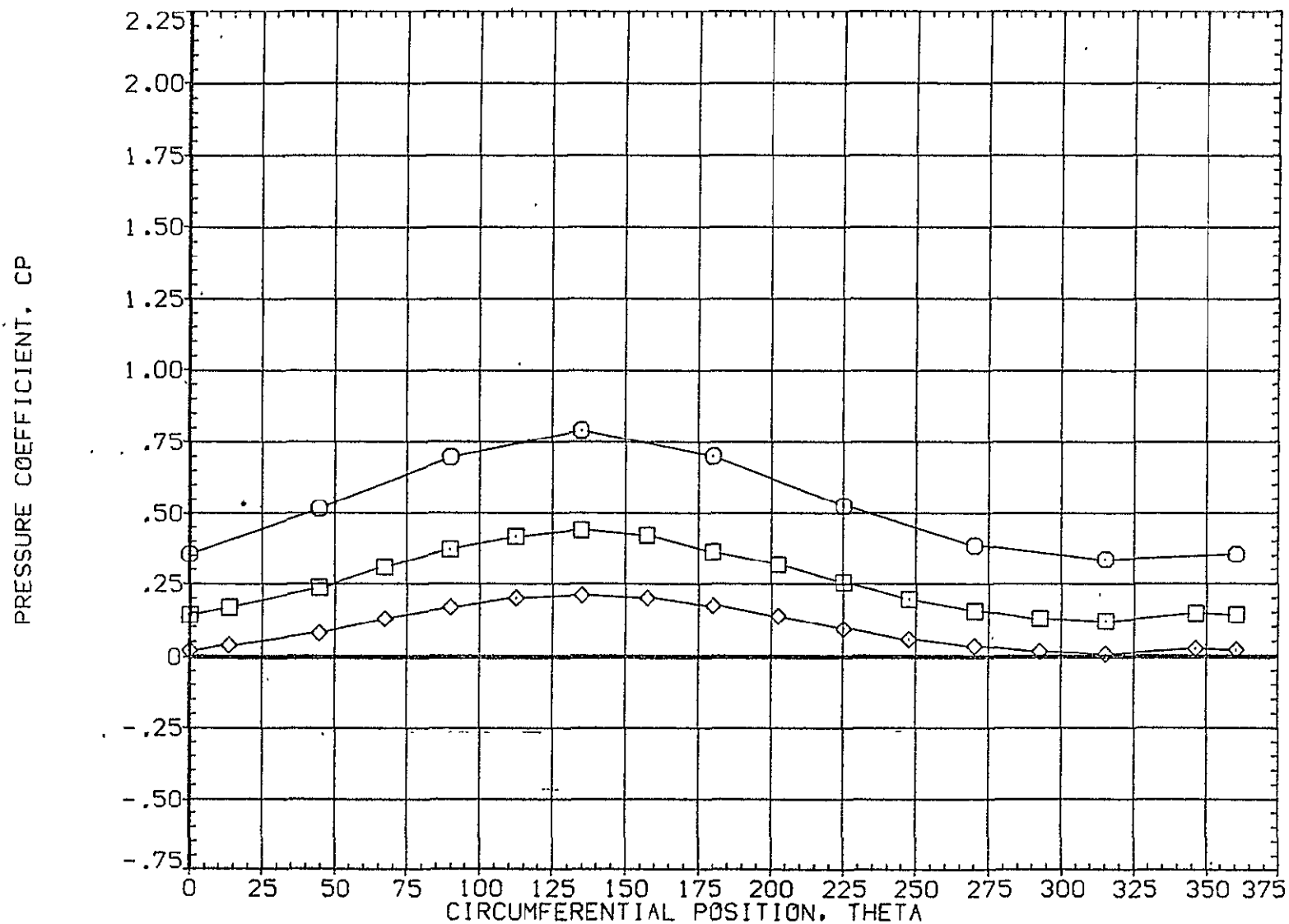


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.216	7.800	3.480	.000	.000		
□	.322			1.000			
◇	.518					315.000	

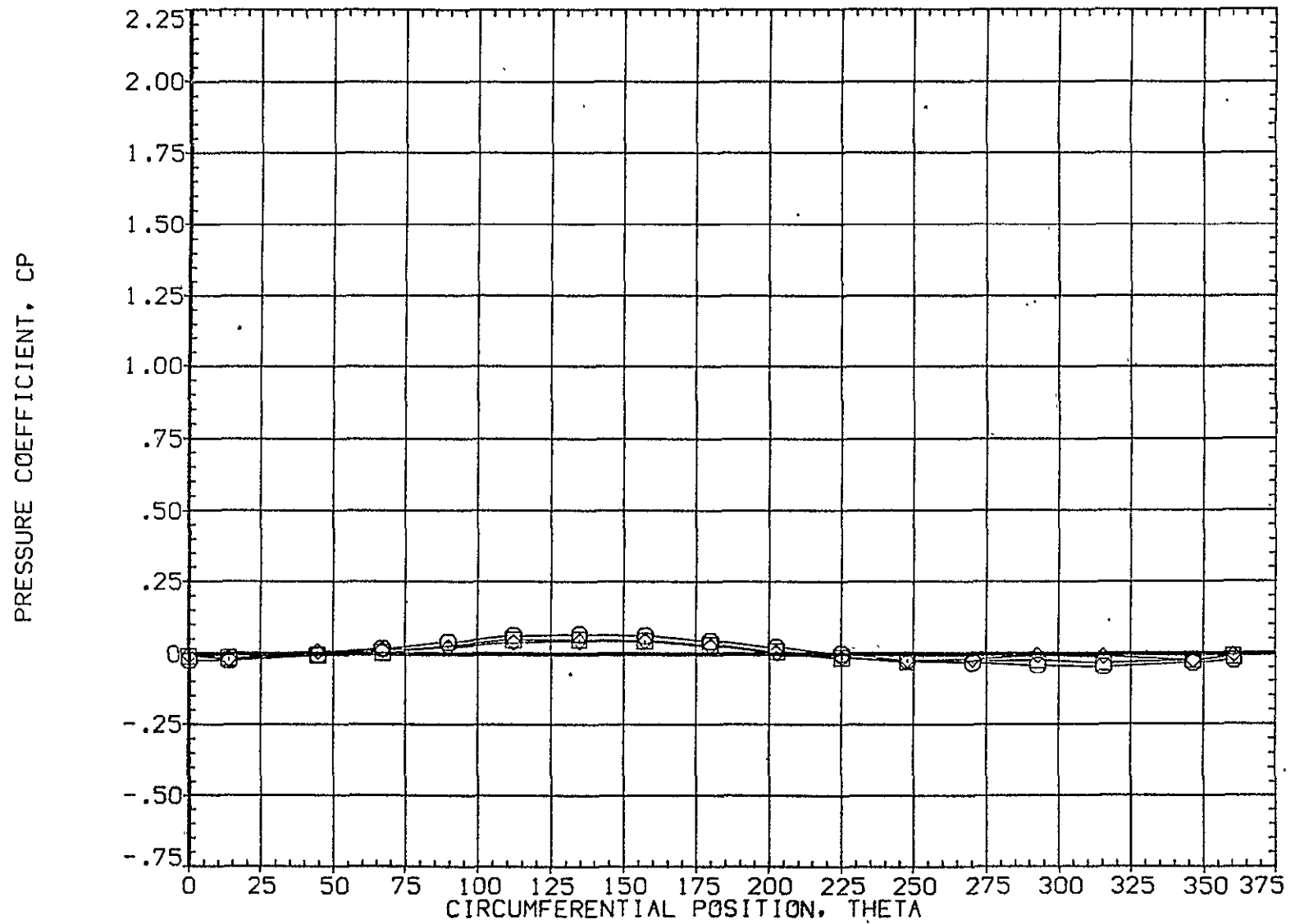


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A095)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	7.800	3.480	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	315.000
◇	.860						

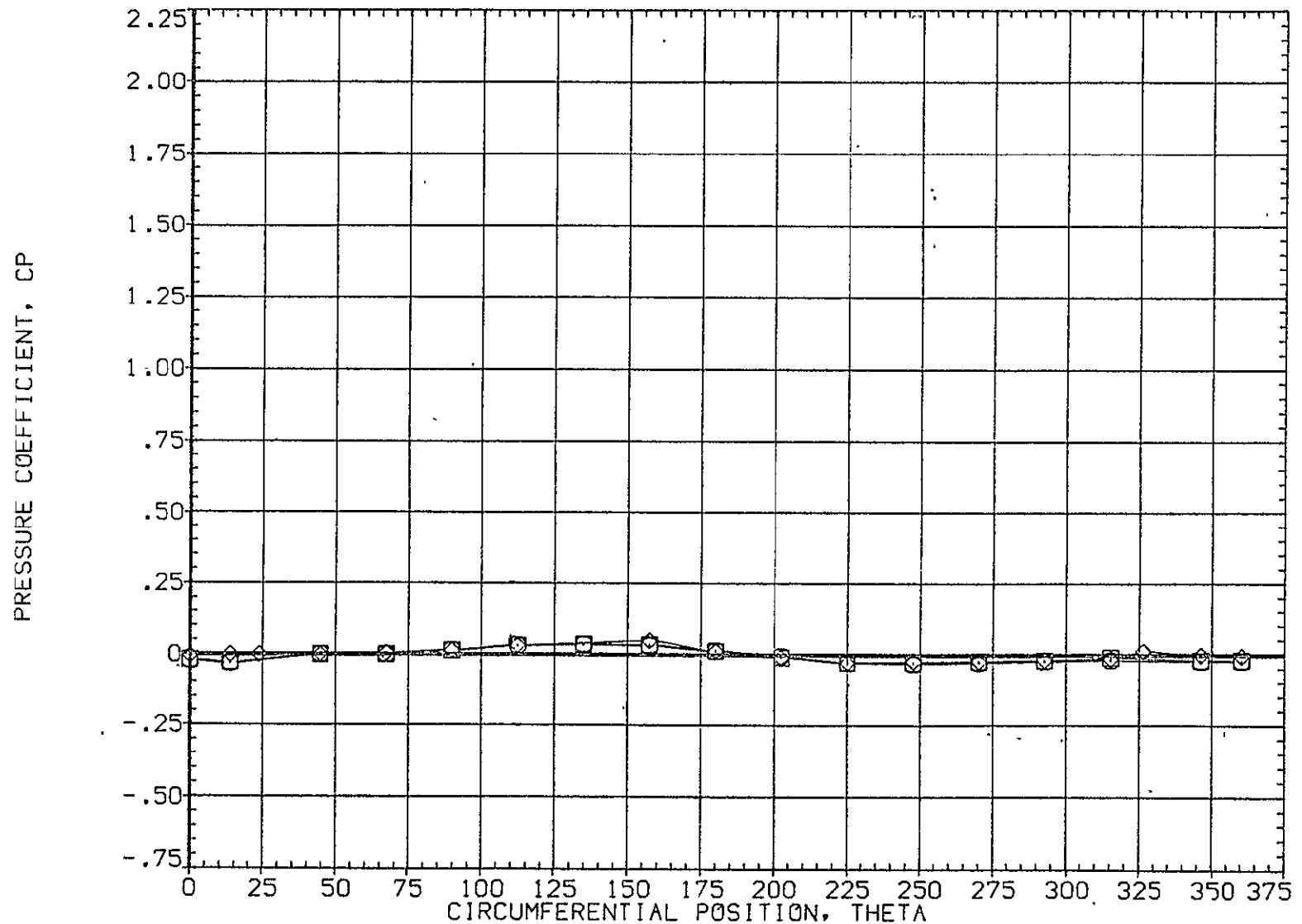


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	7.800	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	315.000

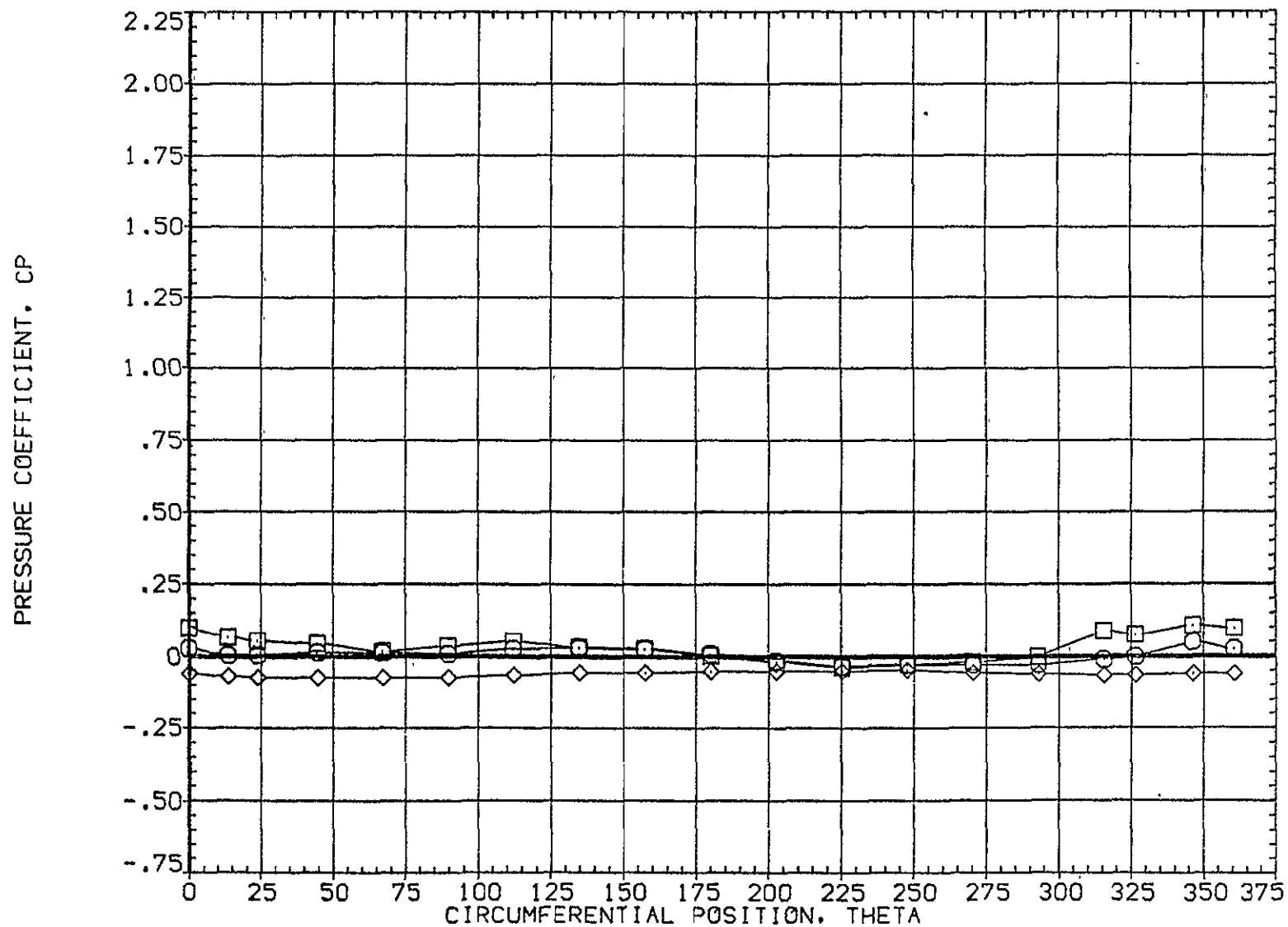


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.055	12.500	3.480	BETA	.000	OFFSET 20.000
□	.108			MOUNT	1.000	PHI 315.000
◇	.162					

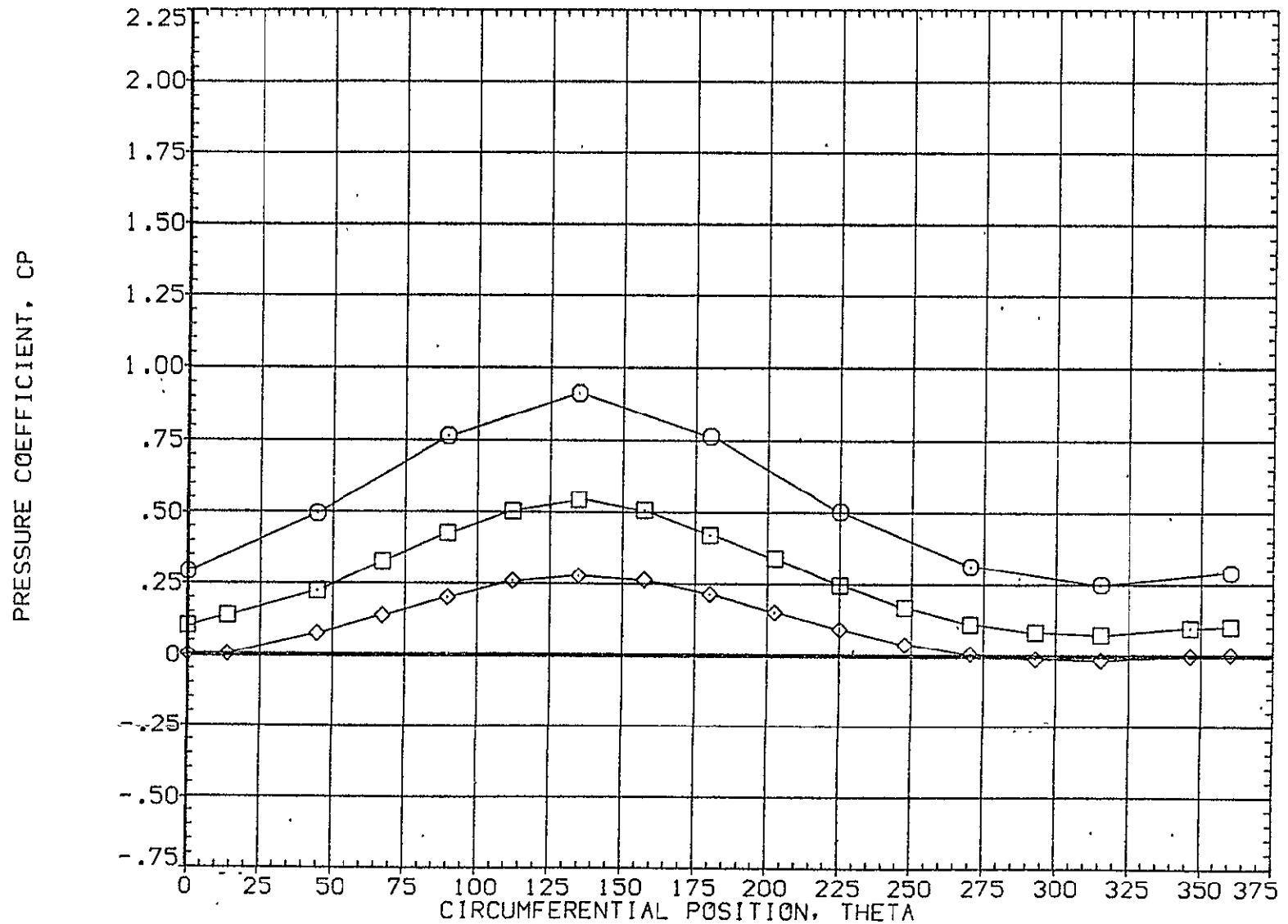


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	12.500	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 315.000

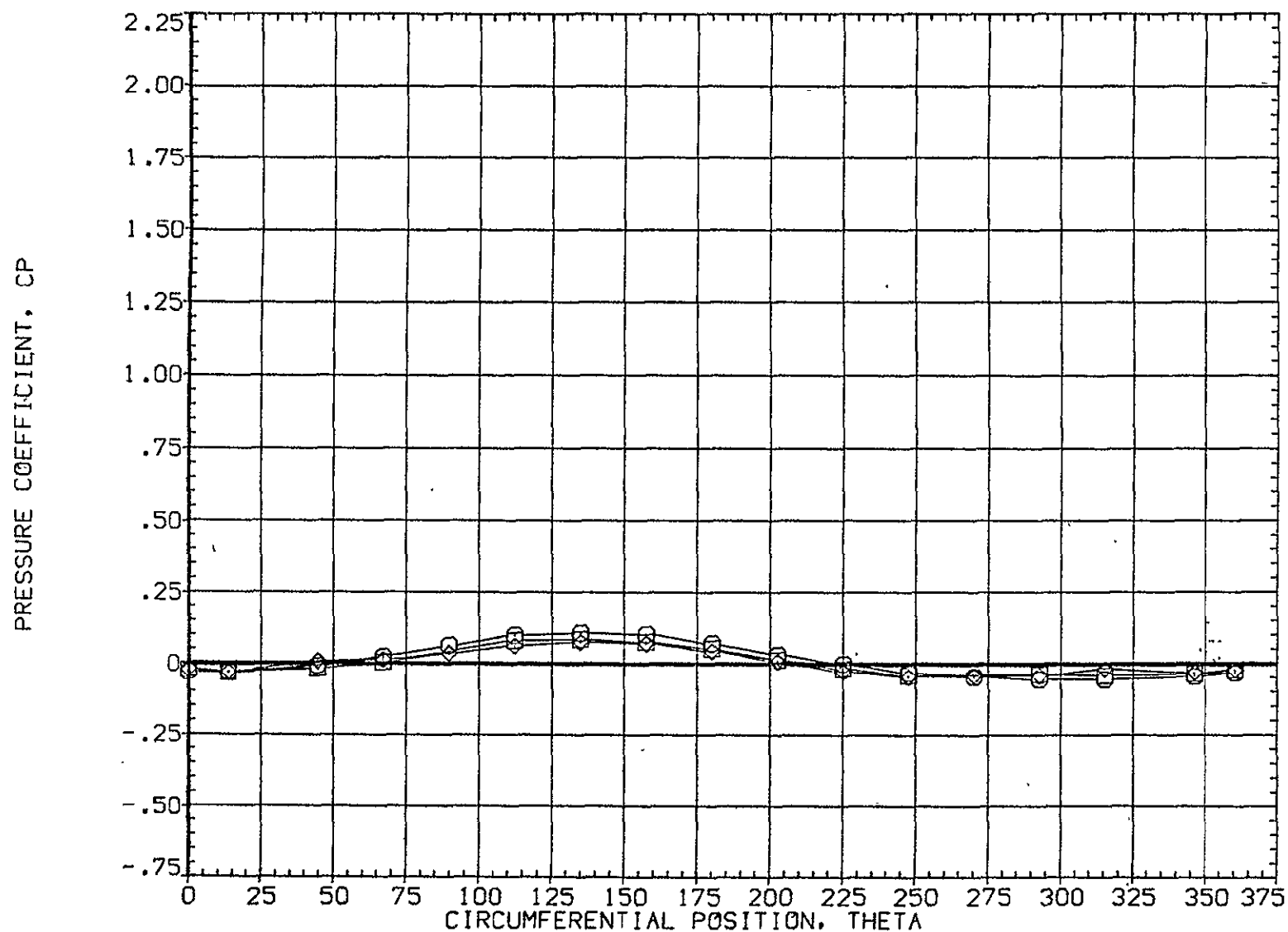


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A096)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	12.500	3.480	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	315.000
◇	.860						

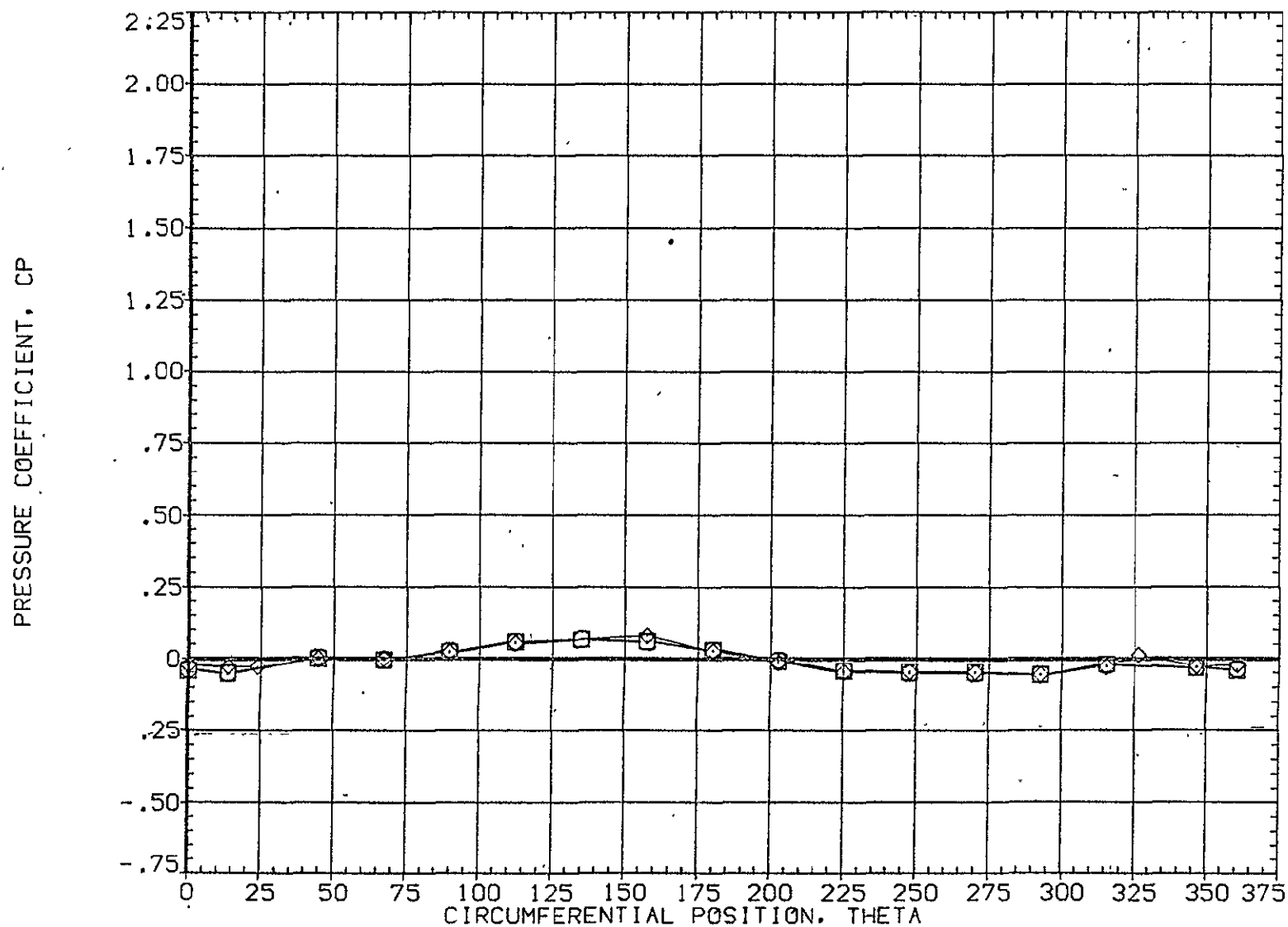


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.892	12.500	3.480	BETA	.000	OFFSET 20.000
□	.923			MOUNT	1.000	PHI 315.000
◇	.954					

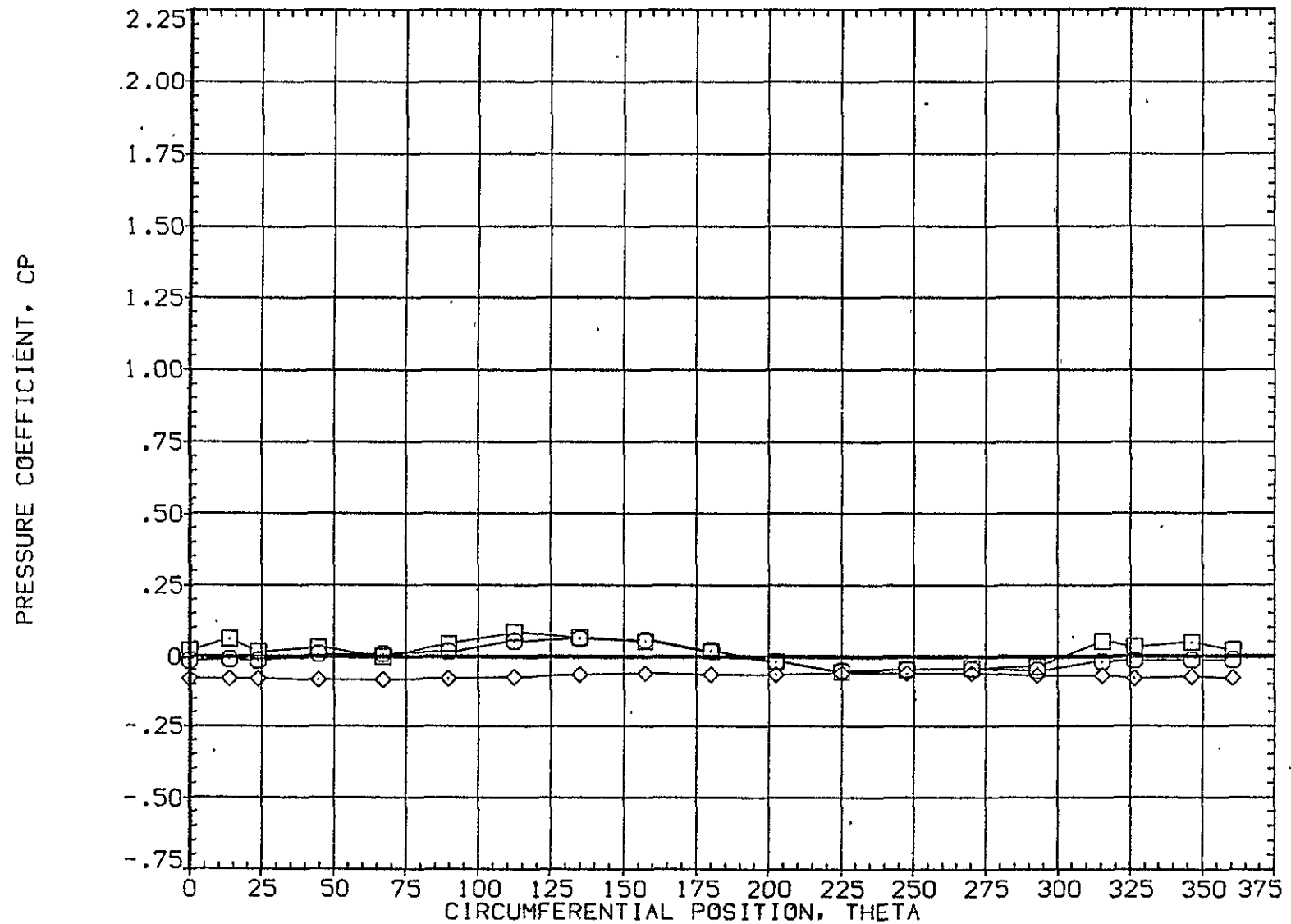


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	16.560	3.480	MOUNT	.000	PHI	315.000
□	.108				1.000		
◇	.162						

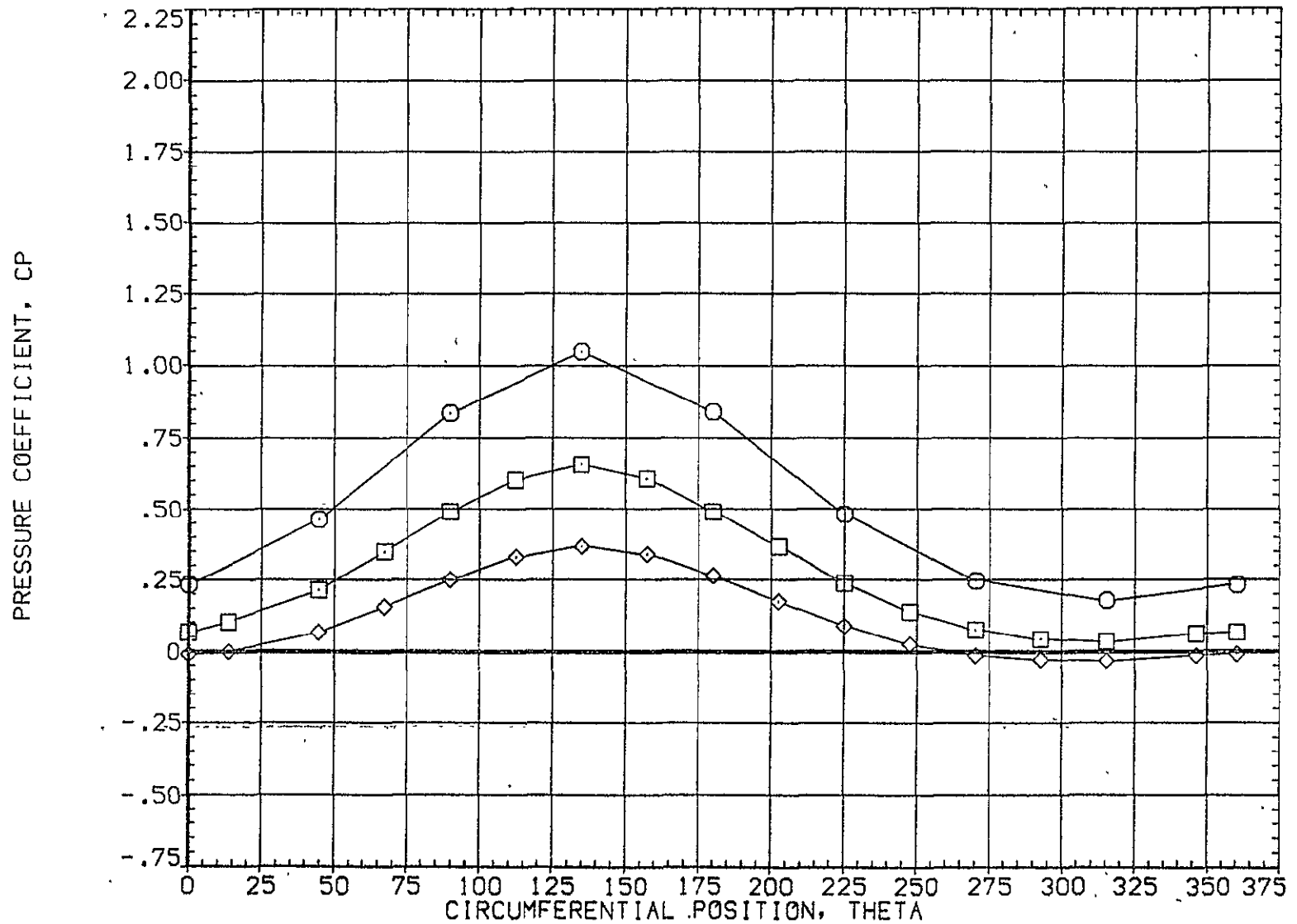


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	16.560	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	315.000

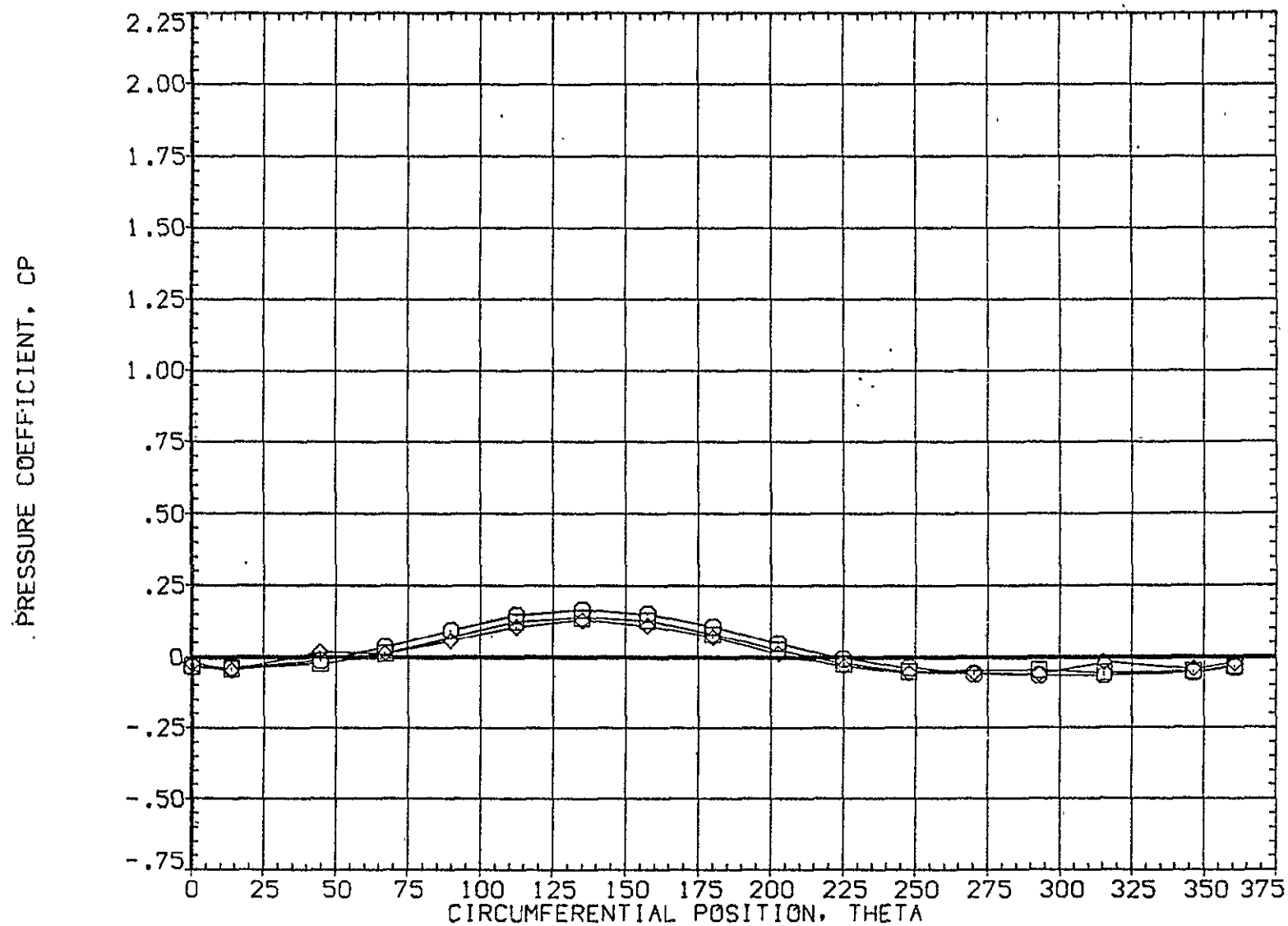


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.610	16.560	3.480	BETA	.000	OFFSET 20.000
□	.735			MOUNT	1.000	PHI 315.000
◇	.860					

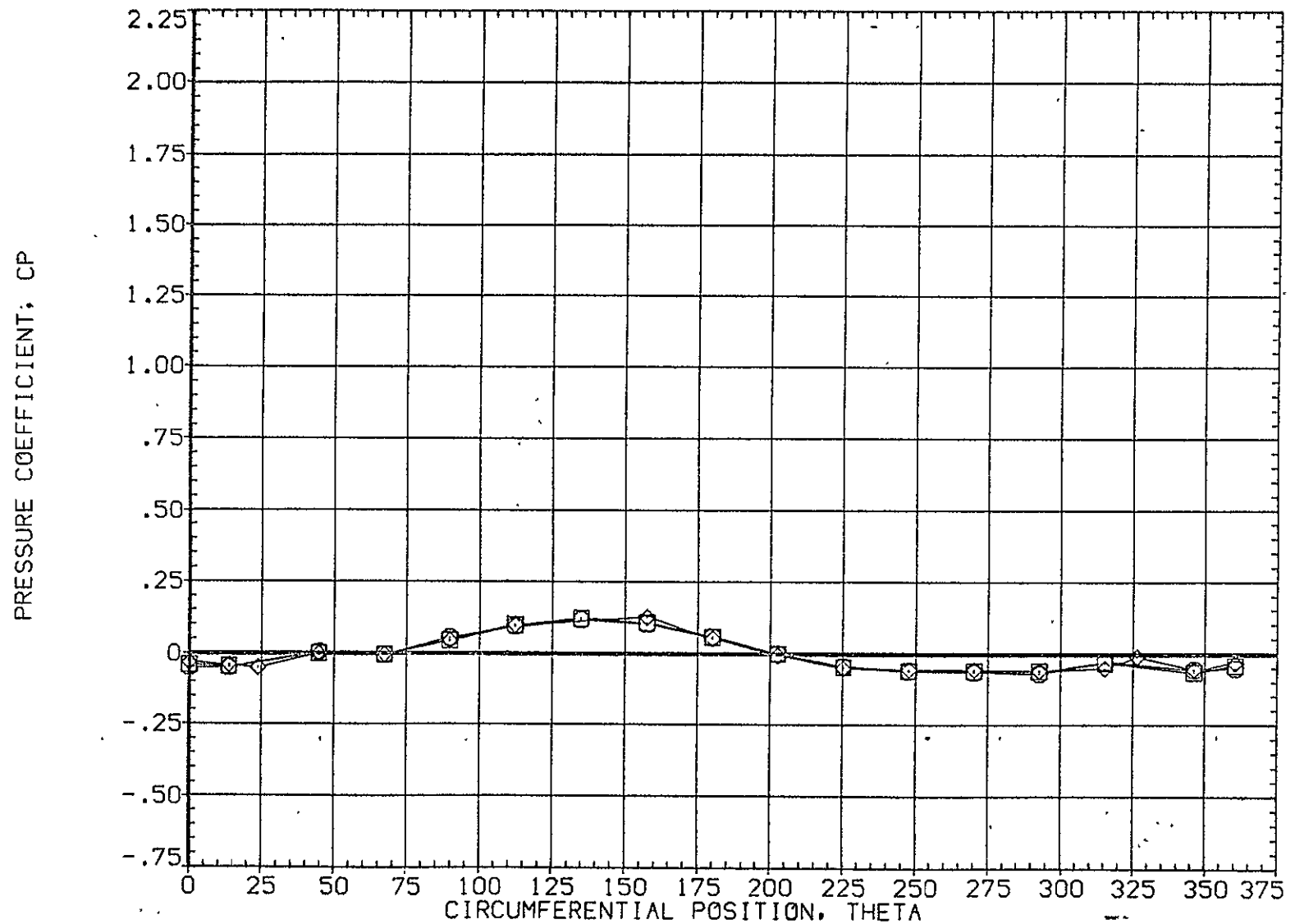


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	16.560	3.480	.000	20.000	
□	.923			1.000	PHI	315.000
◇	.954					

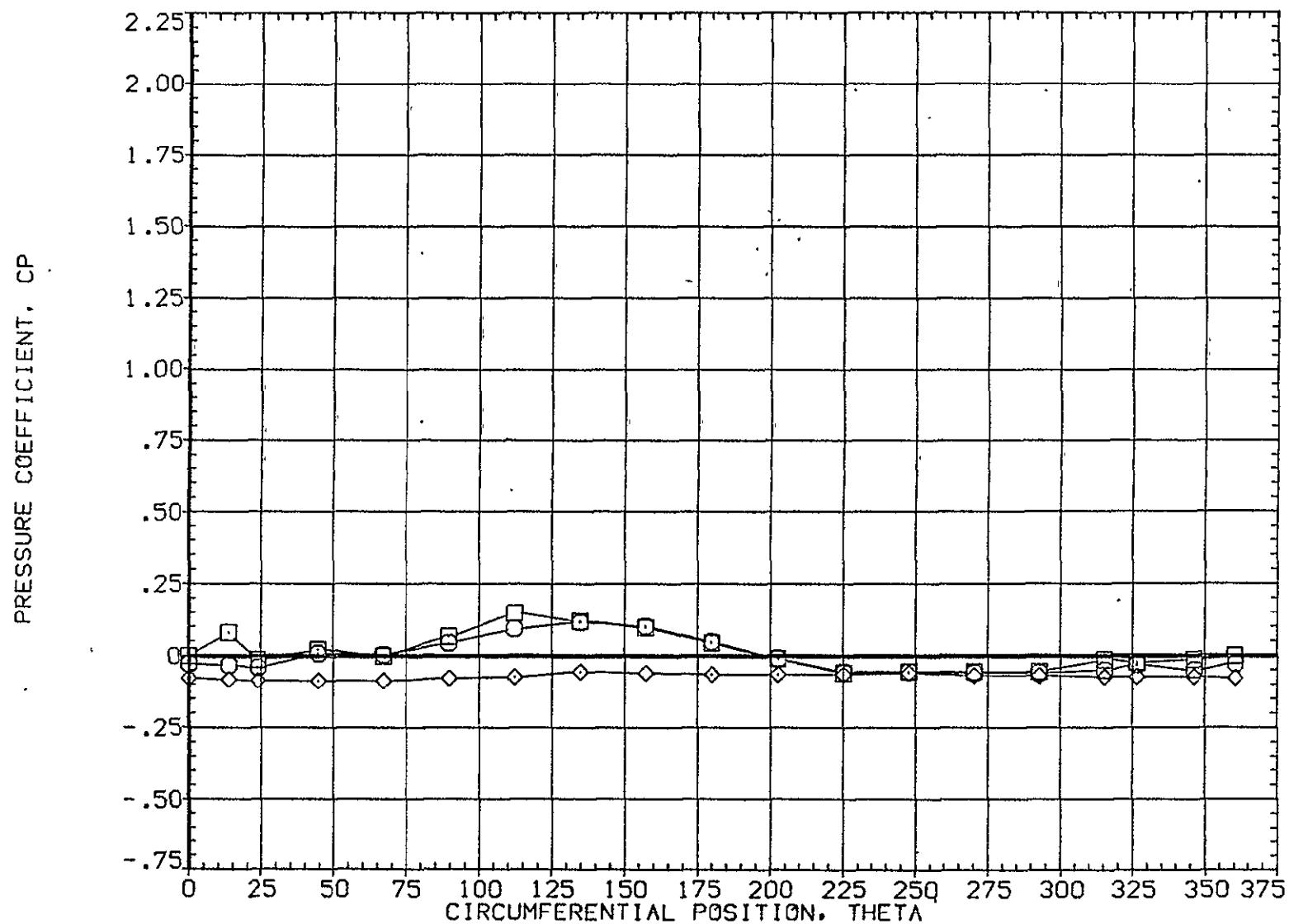


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	20.610	3.480	MOUNT	.000	PHI	315.000
□	.108				1.000		
◇	.162						

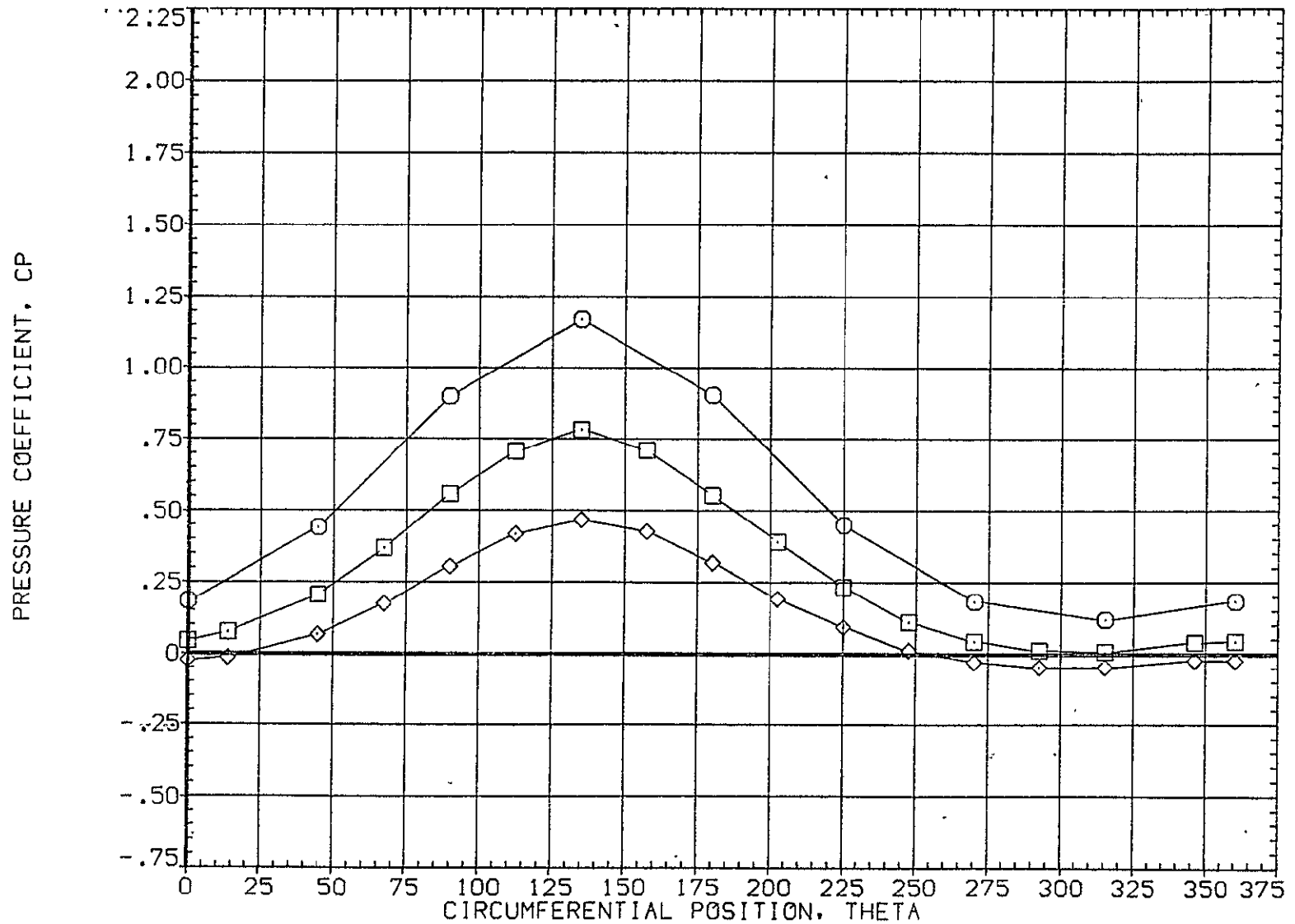


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

○
□
◇.216
.322
.518

20.610

3.480

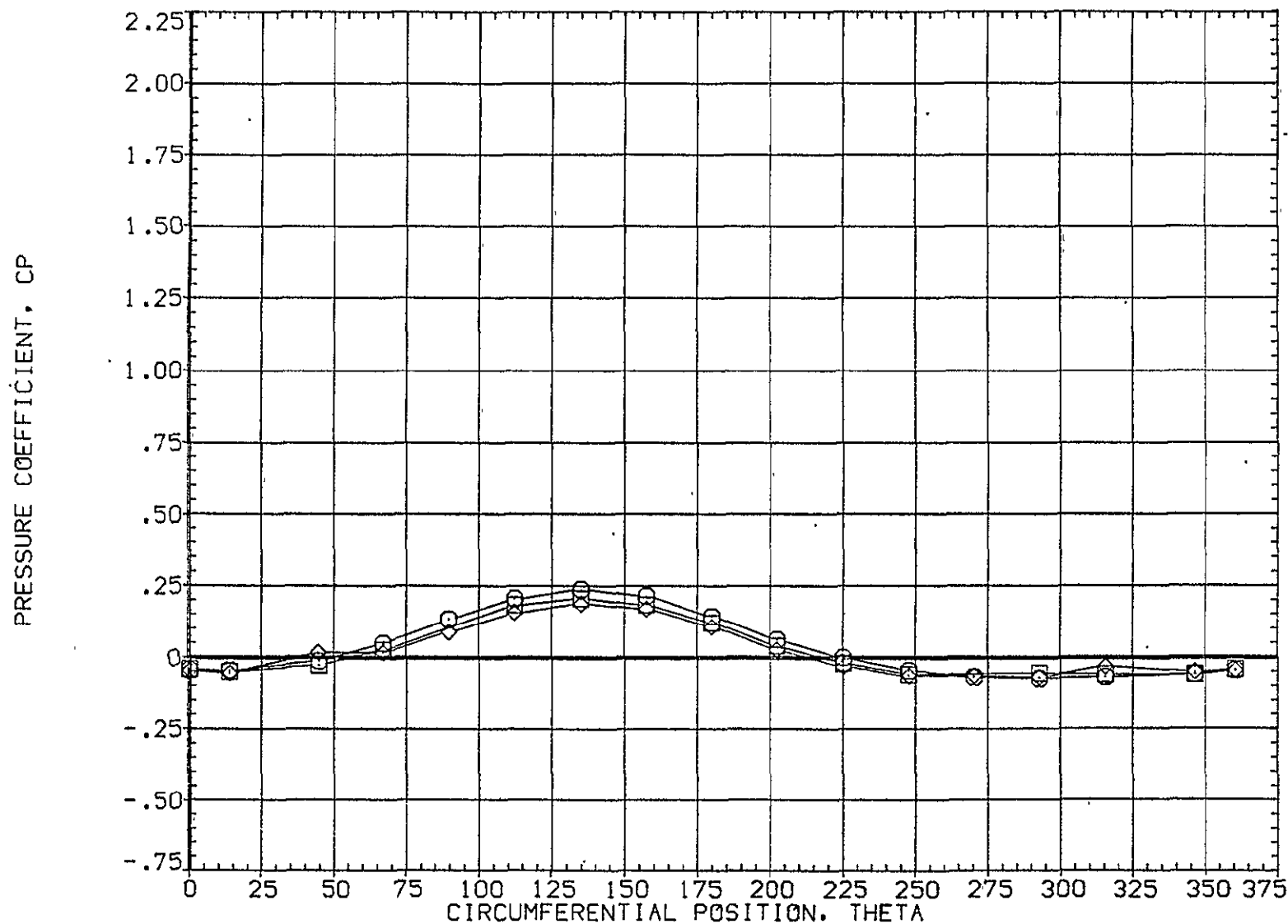
BETA
MOUNT.000
1.000OFFSET
PHI20.000
315.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.610	20.610	3.480
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	315.000

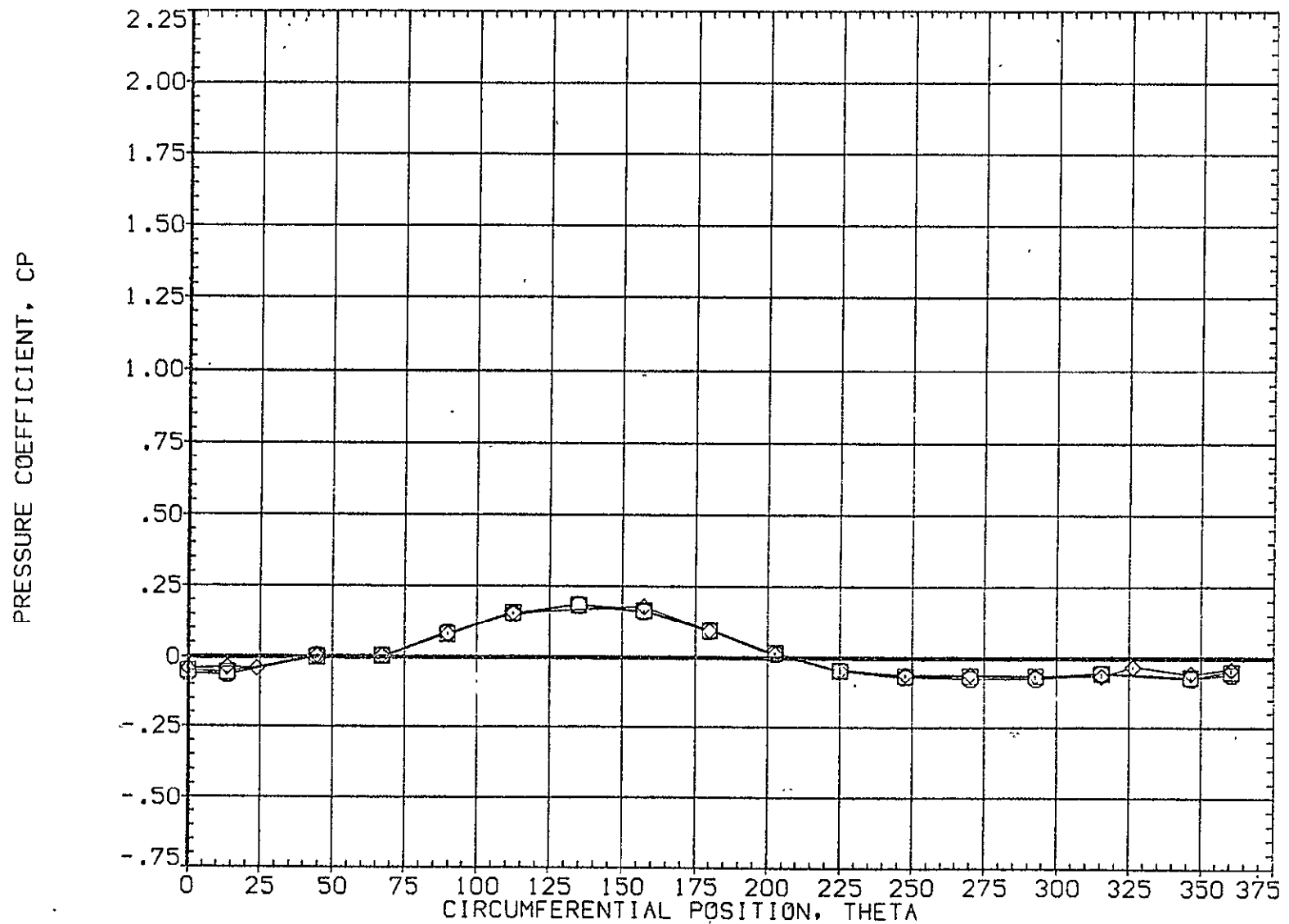


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.892	20.610	3.480	MOUNT	1.000	PHI 315.000
□	.923					
◇	.954					

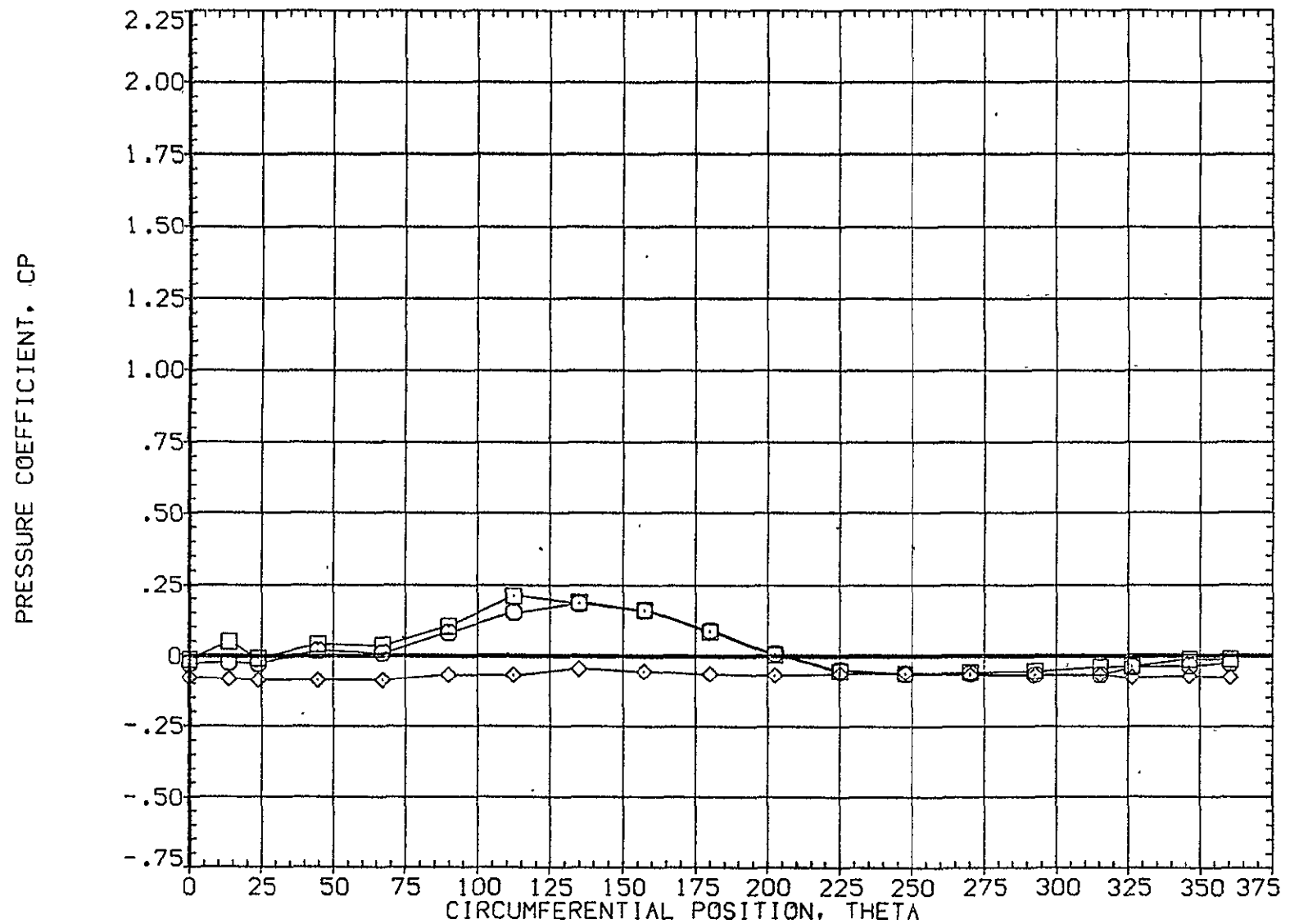


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	24.660	3.480				20.000
□	.108						
◇	.162			MOUNT	1.000		315.000

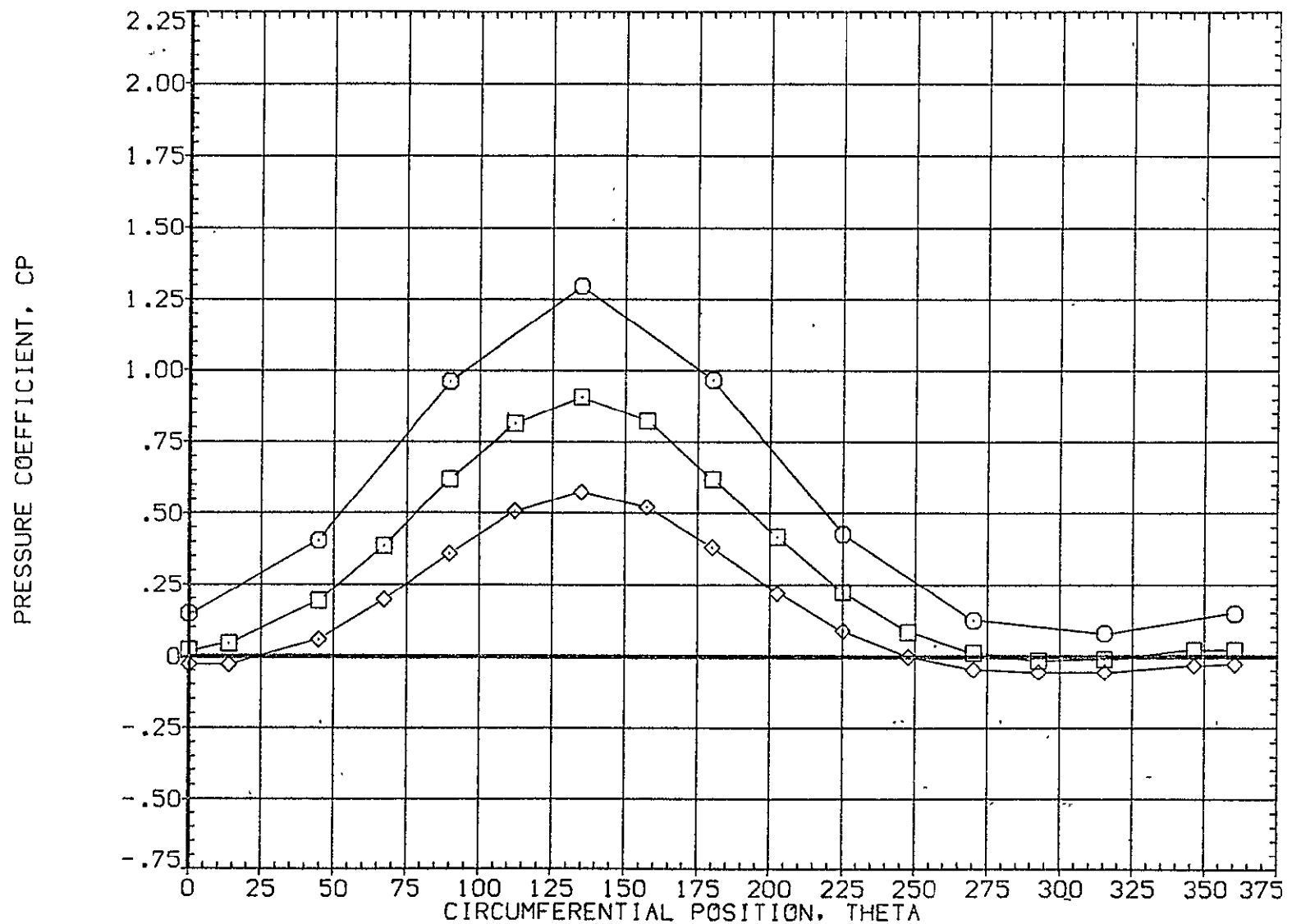


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.216	24.660	3.480	.000	OFFSET 20.000
□	.322			1.000	PHI 315.000
◇	.518				

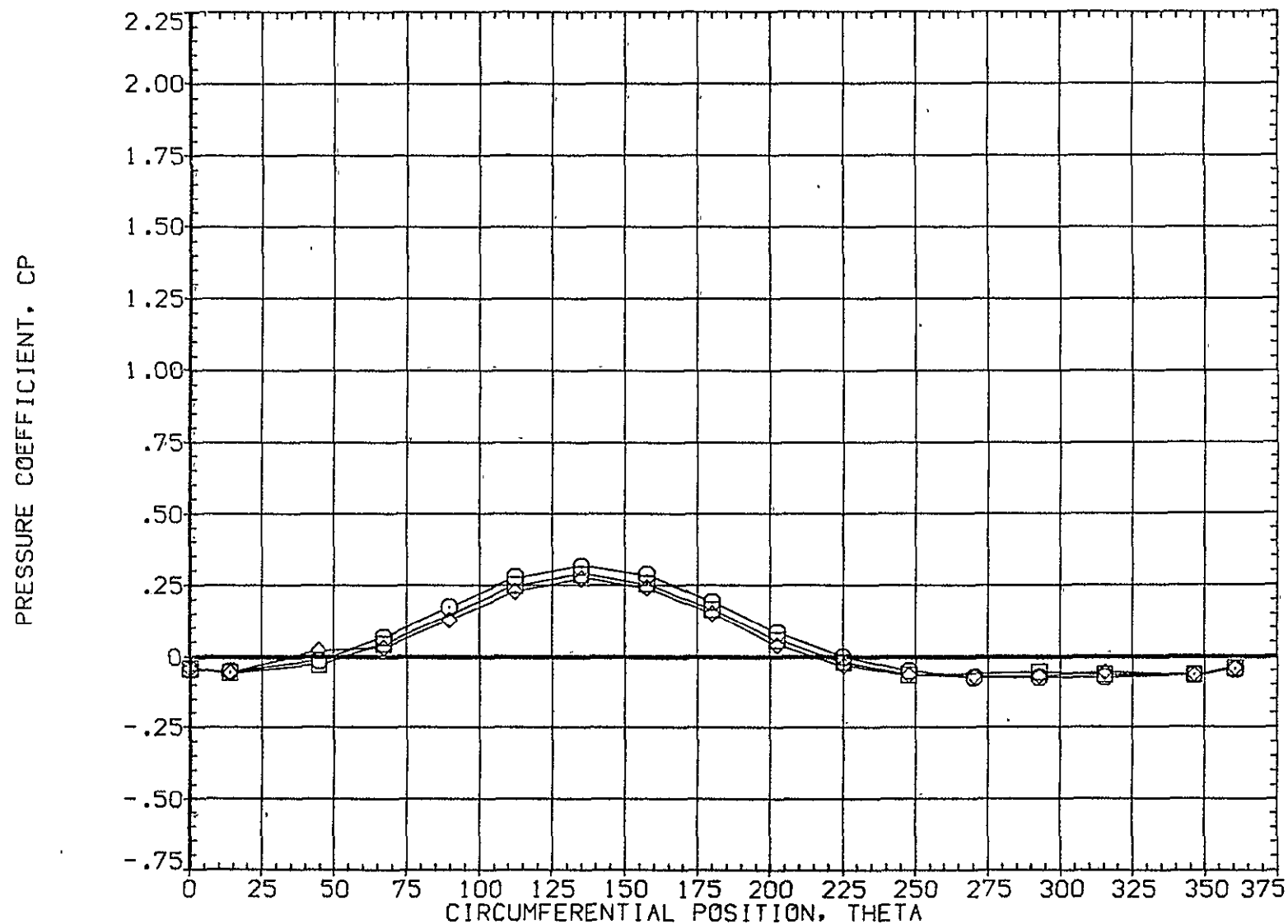


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.610	24.660	3.480	.000	20.000	
□	.735			1.000	PHI	315.000
◇	.860					

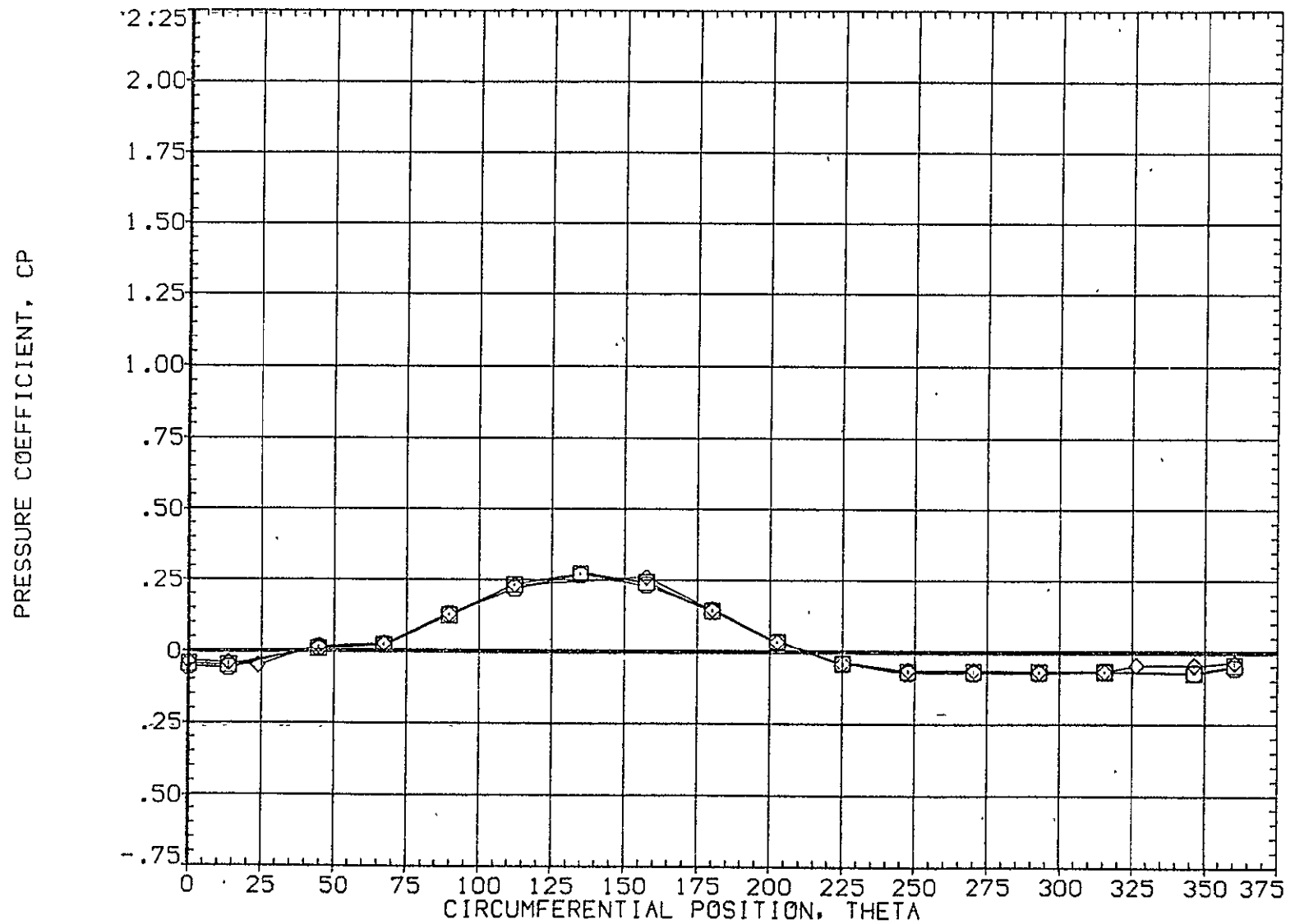


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	24.660	3.480
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 315.000

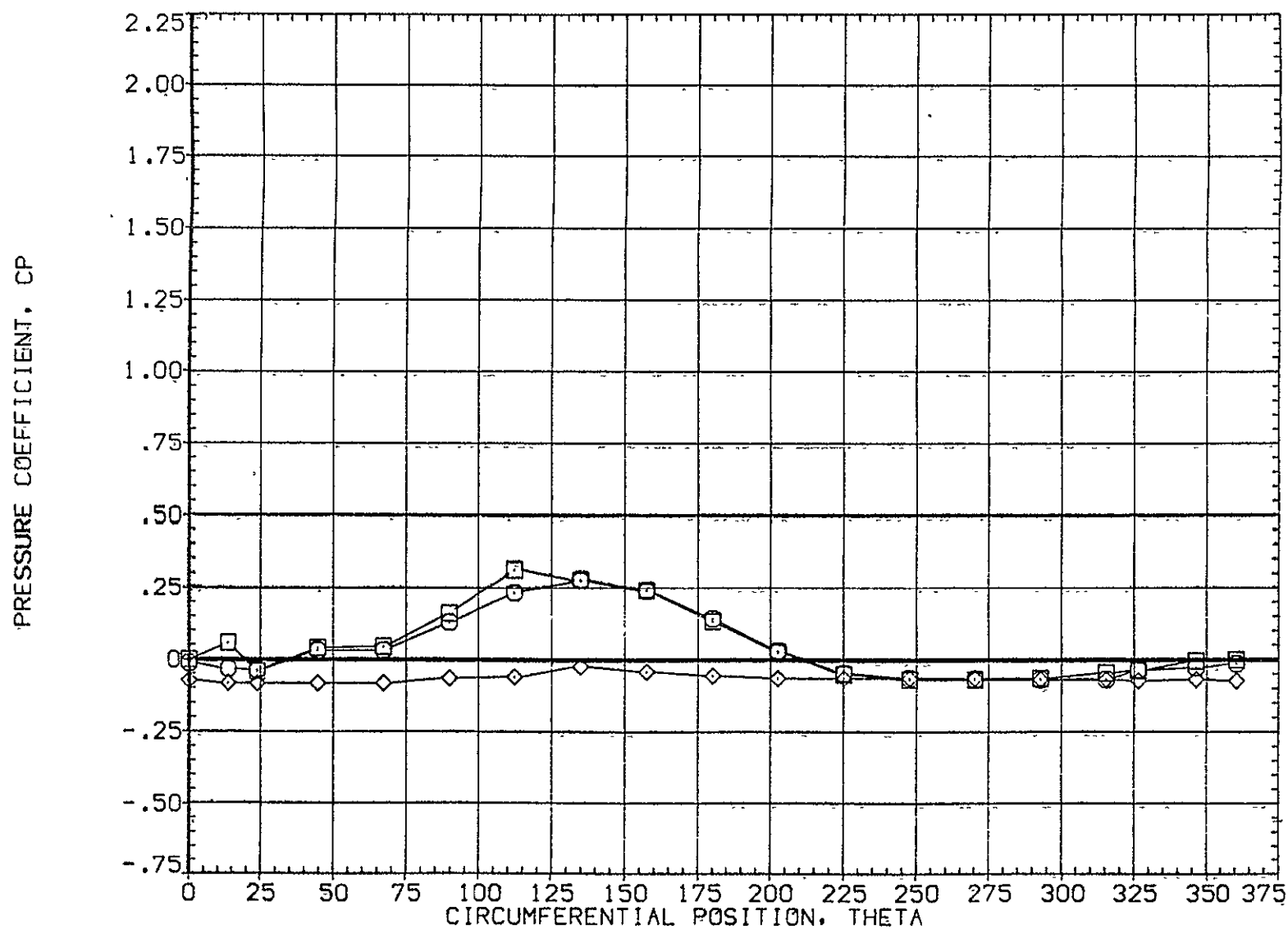


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A100)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.055	28,700	3,480	MOUNT	.000	PHI	315,000
□	.108				1,000		
◇	.162						

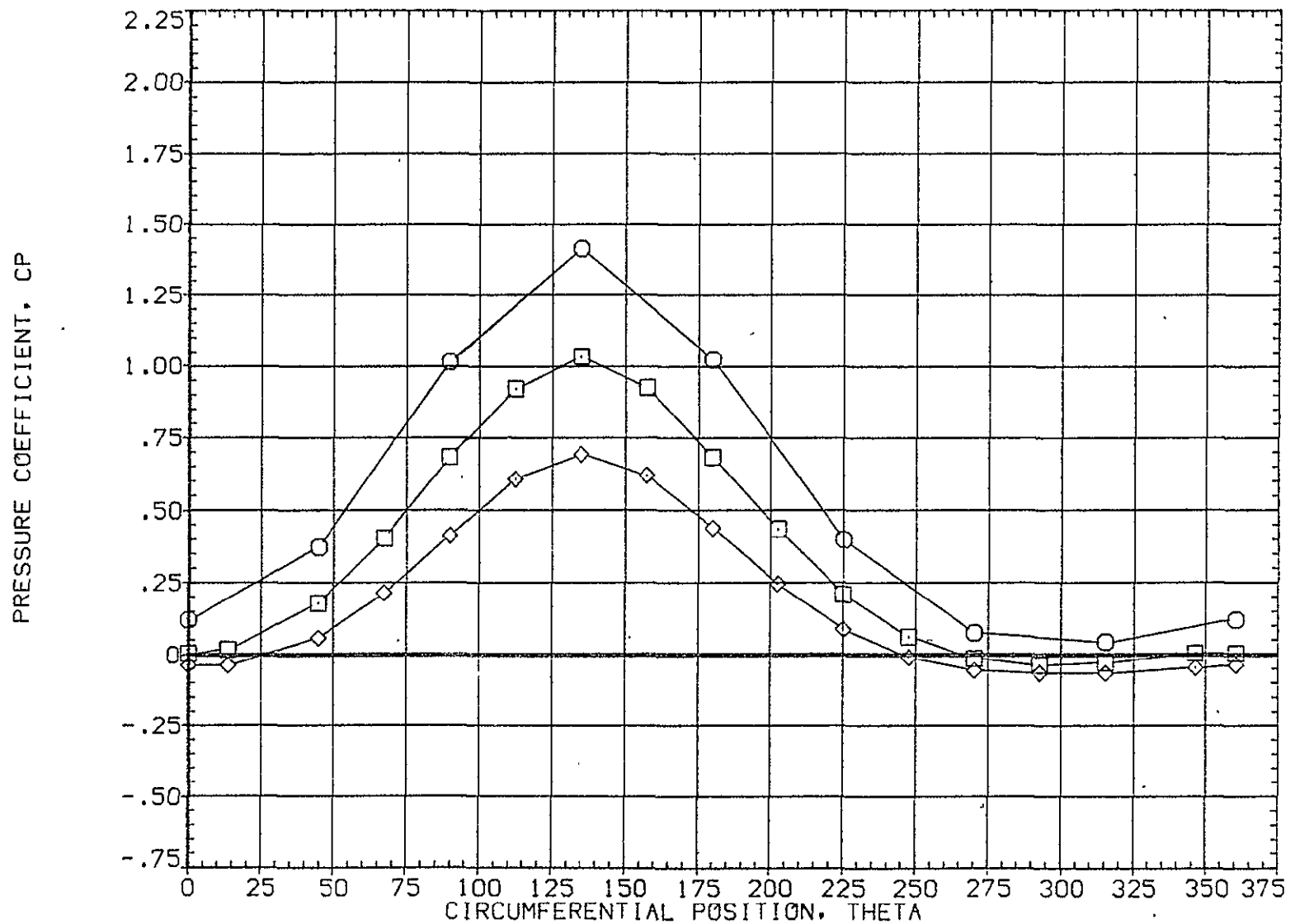


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	28.700	3.480
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	315.000

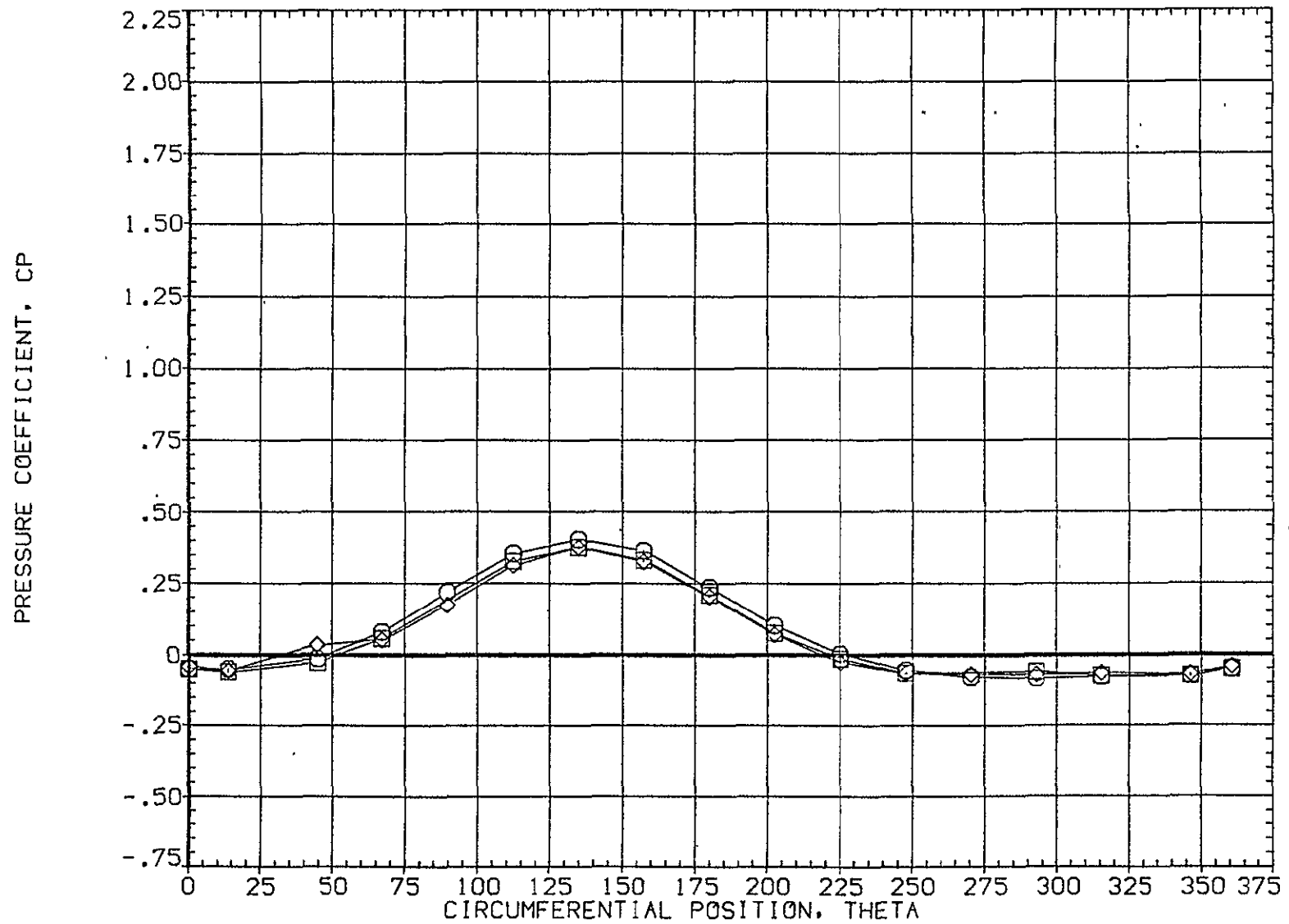


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A100)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	28.700	3.480	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	315.000
◇	.860						

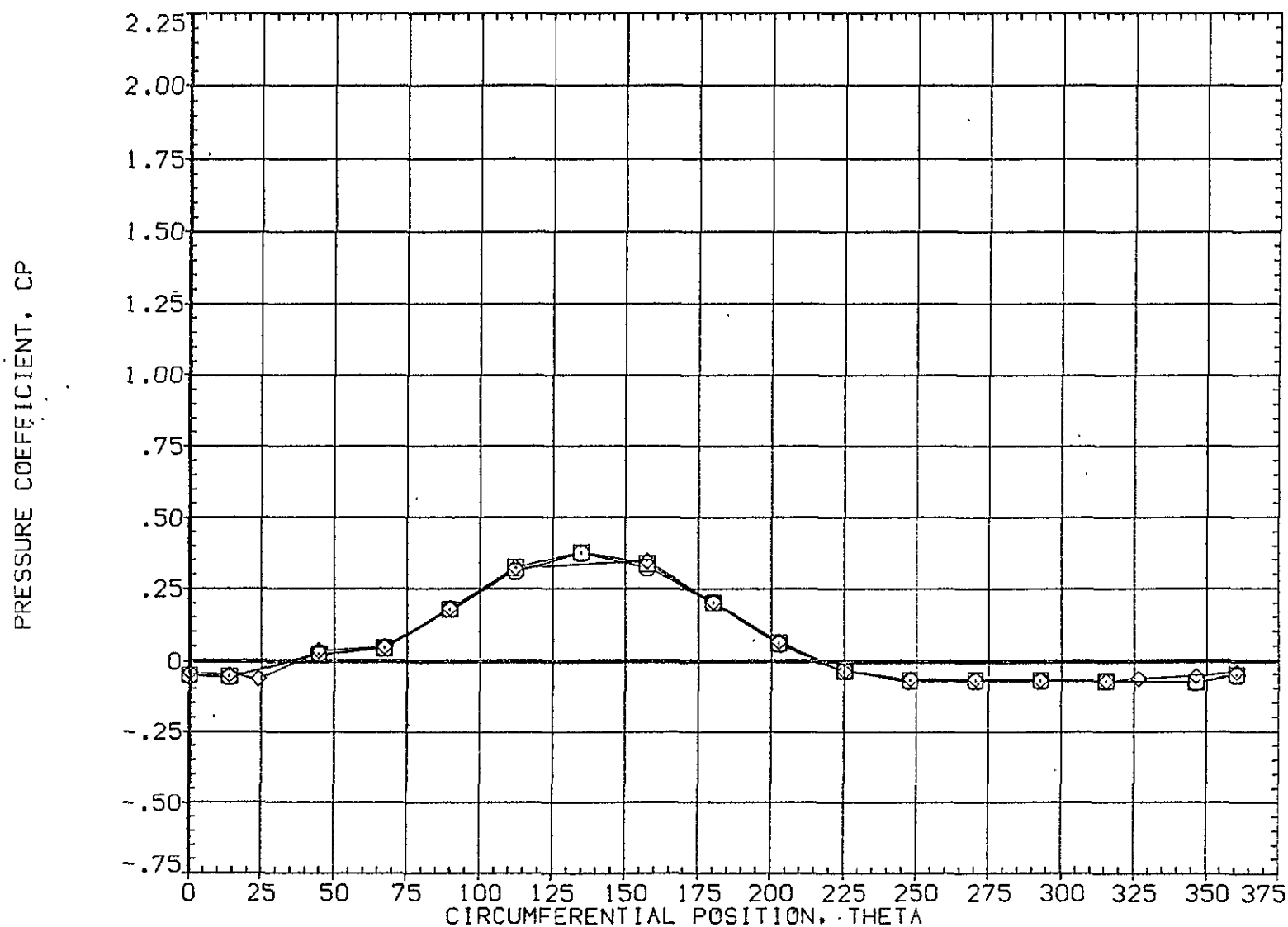


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	28.700	3.480		20.000	
□	.923			MOUNT	1.000	PHI
◇	.954					315.000

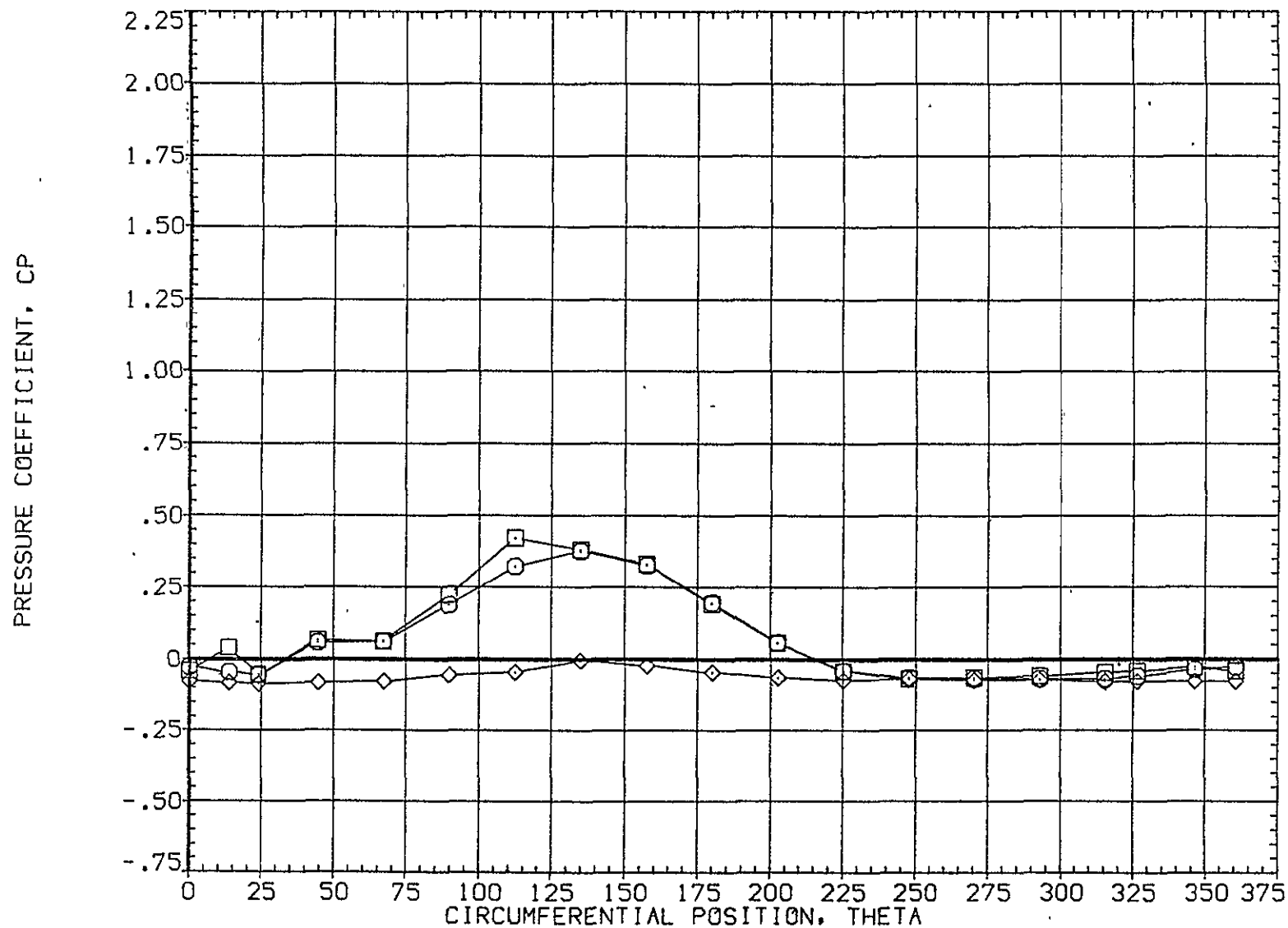


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-8.310	4.960	MOUNT	.000	PHI	.000
□	.108				1.000		.000
◇	.162						

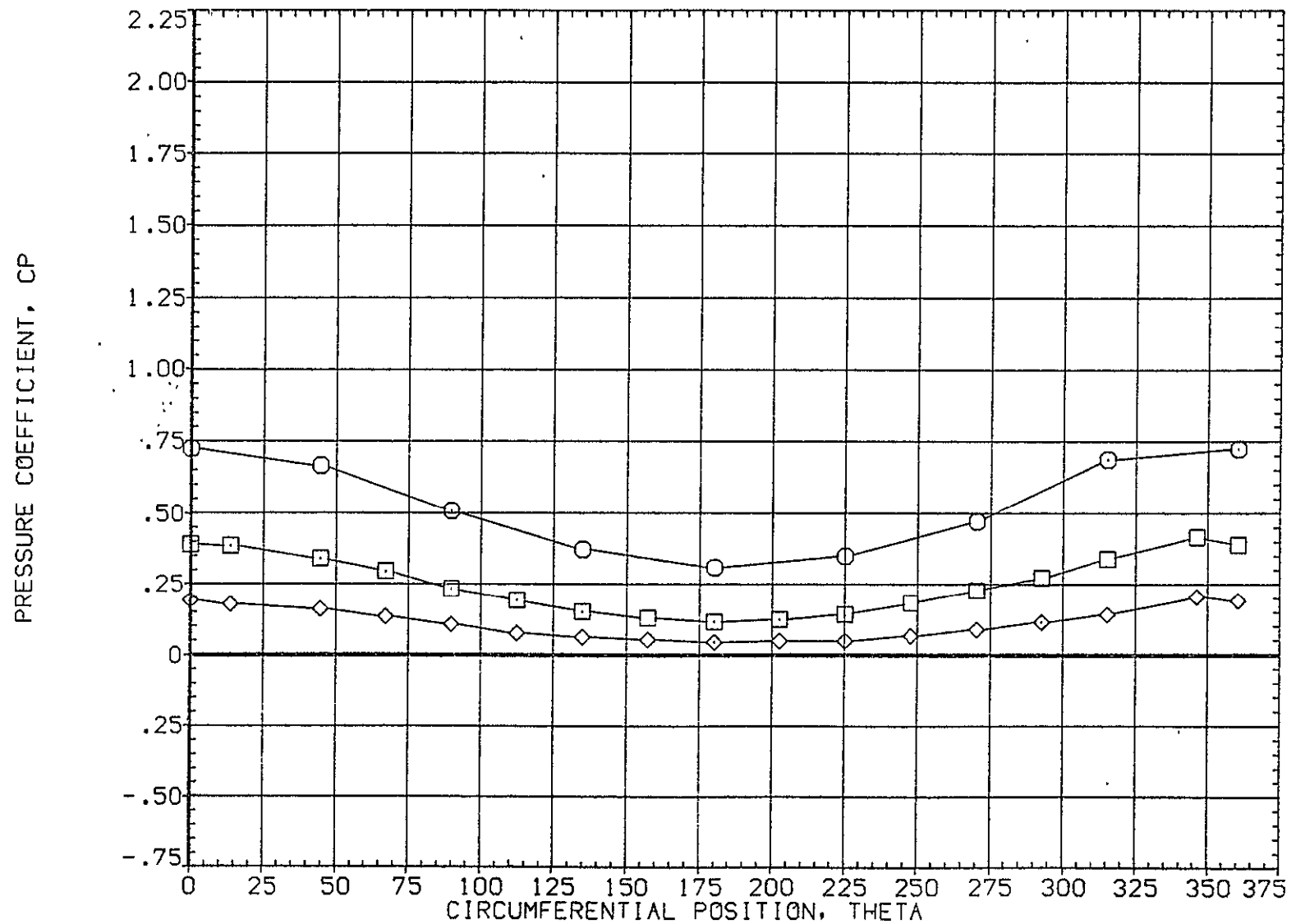


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-8.310	4.960	.000	PHI	.000
□	.322			1.000		.000
◇	.518					

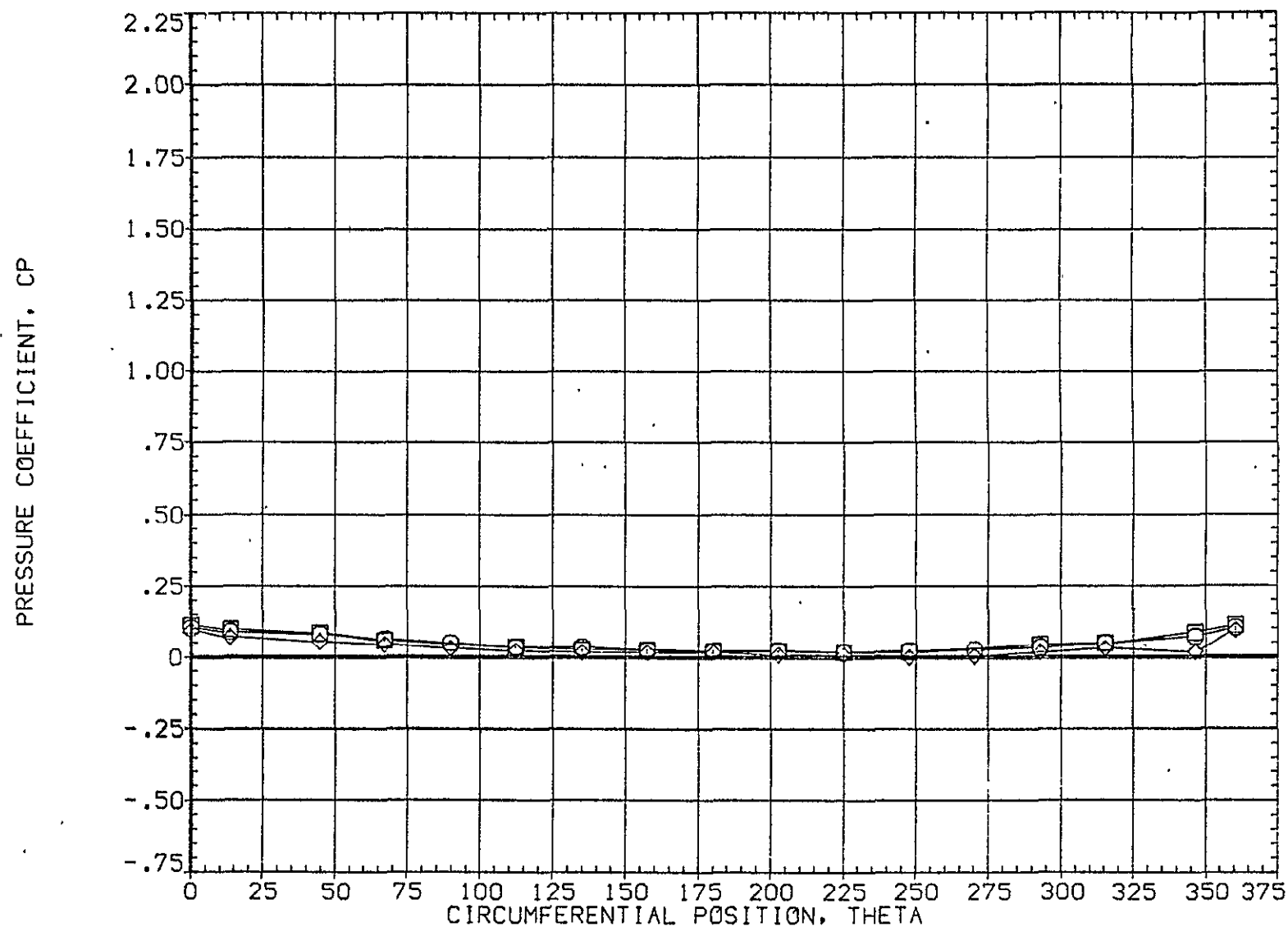


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A001)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	-8.310	4.960	MOUNT	1.000		.000
□	.735						.000
◇	.860						

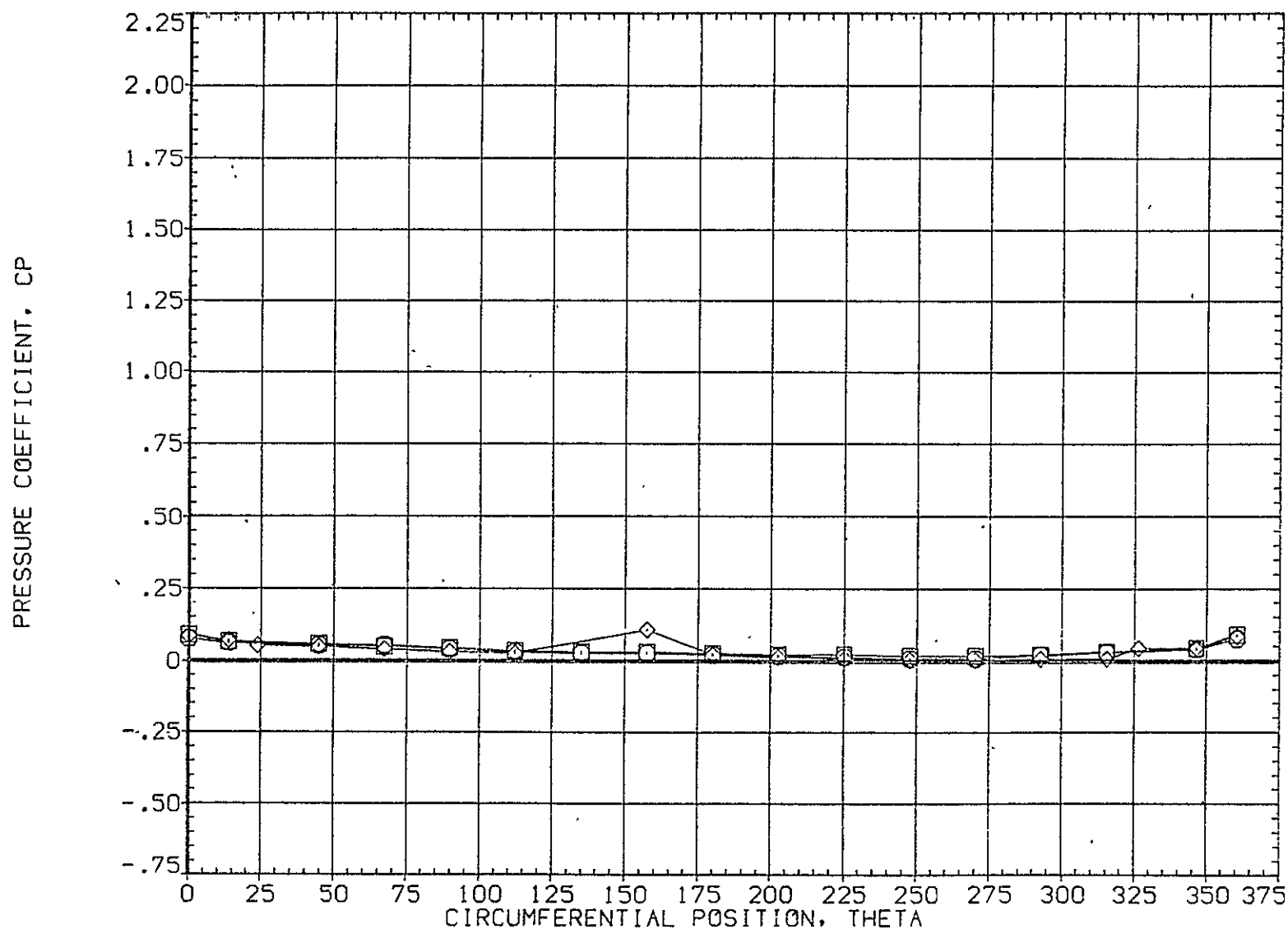


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	-8.310	4.960	MOUNT	.000		.000
□	.923				1.000		.000
◇	.954						

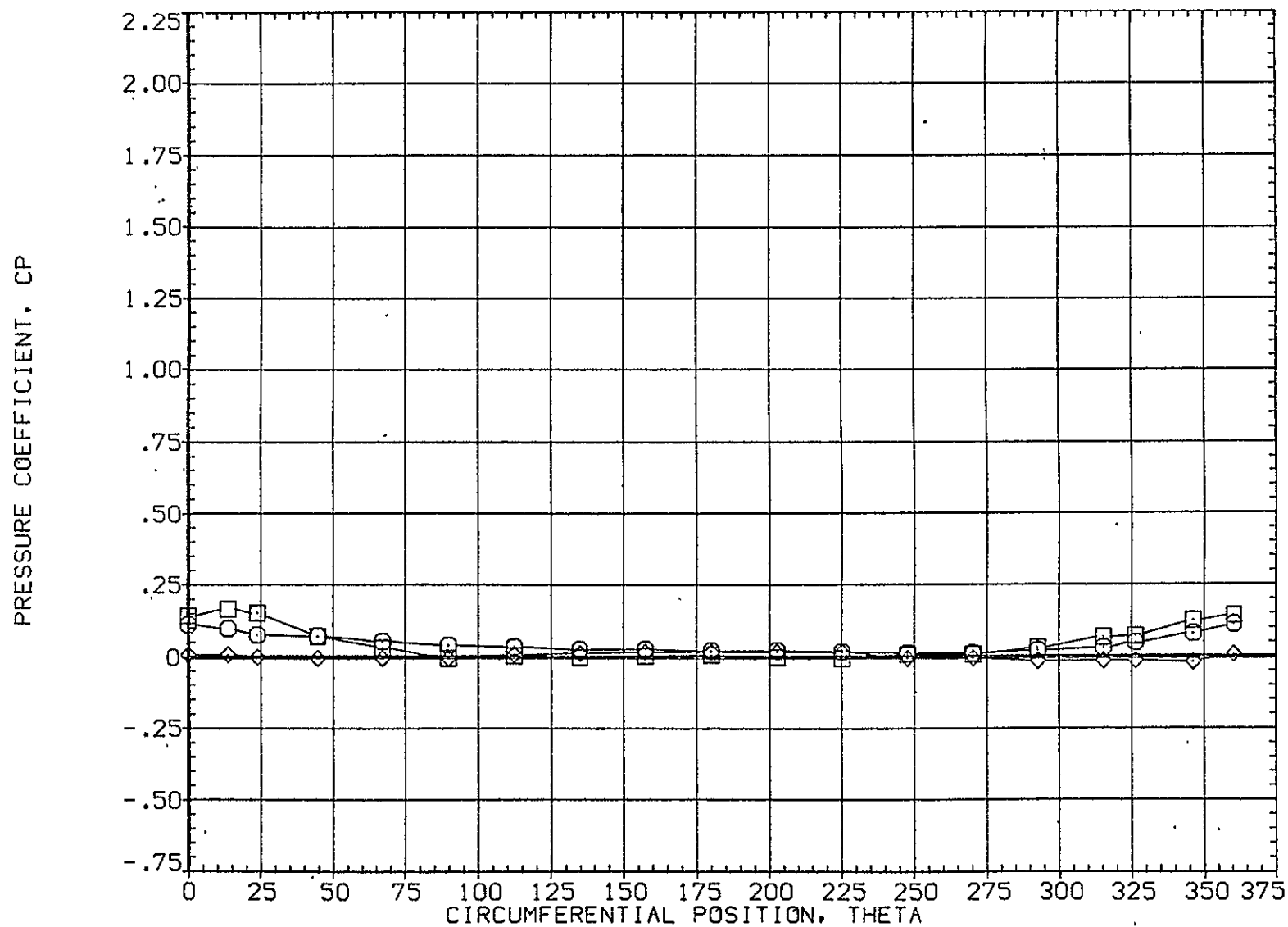


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	-4.290	4.960	.000	.000	.000
□	.108			1.000	PHI	.000
◇	.162					

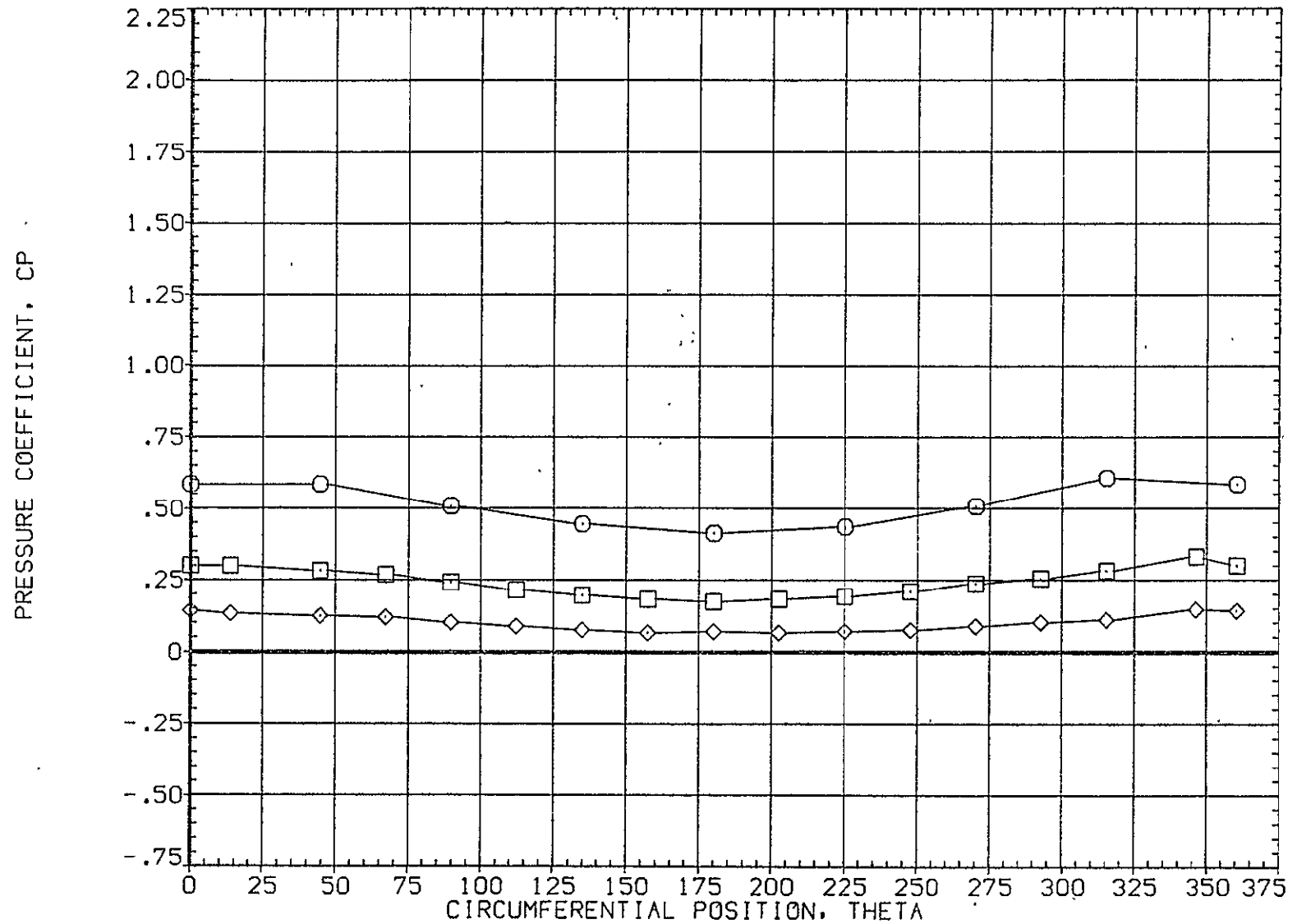


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-4.290	4.960	.000	PHI	.000
□	.322			1.000		.000
◇	.518					

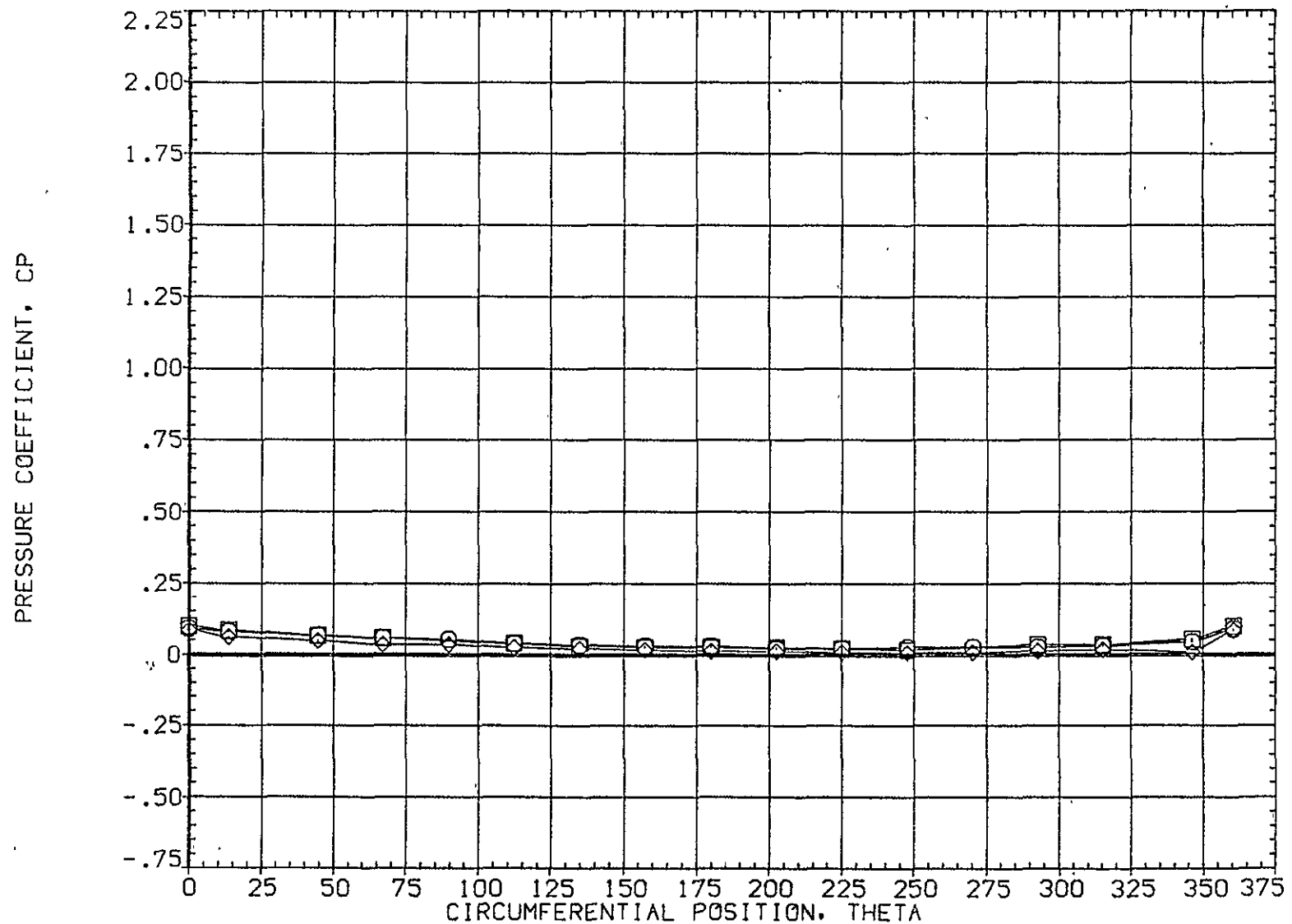


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.610	-4.290	4.960	.000		.000
□	.735			1.000	PHI	.000
◇	.860					

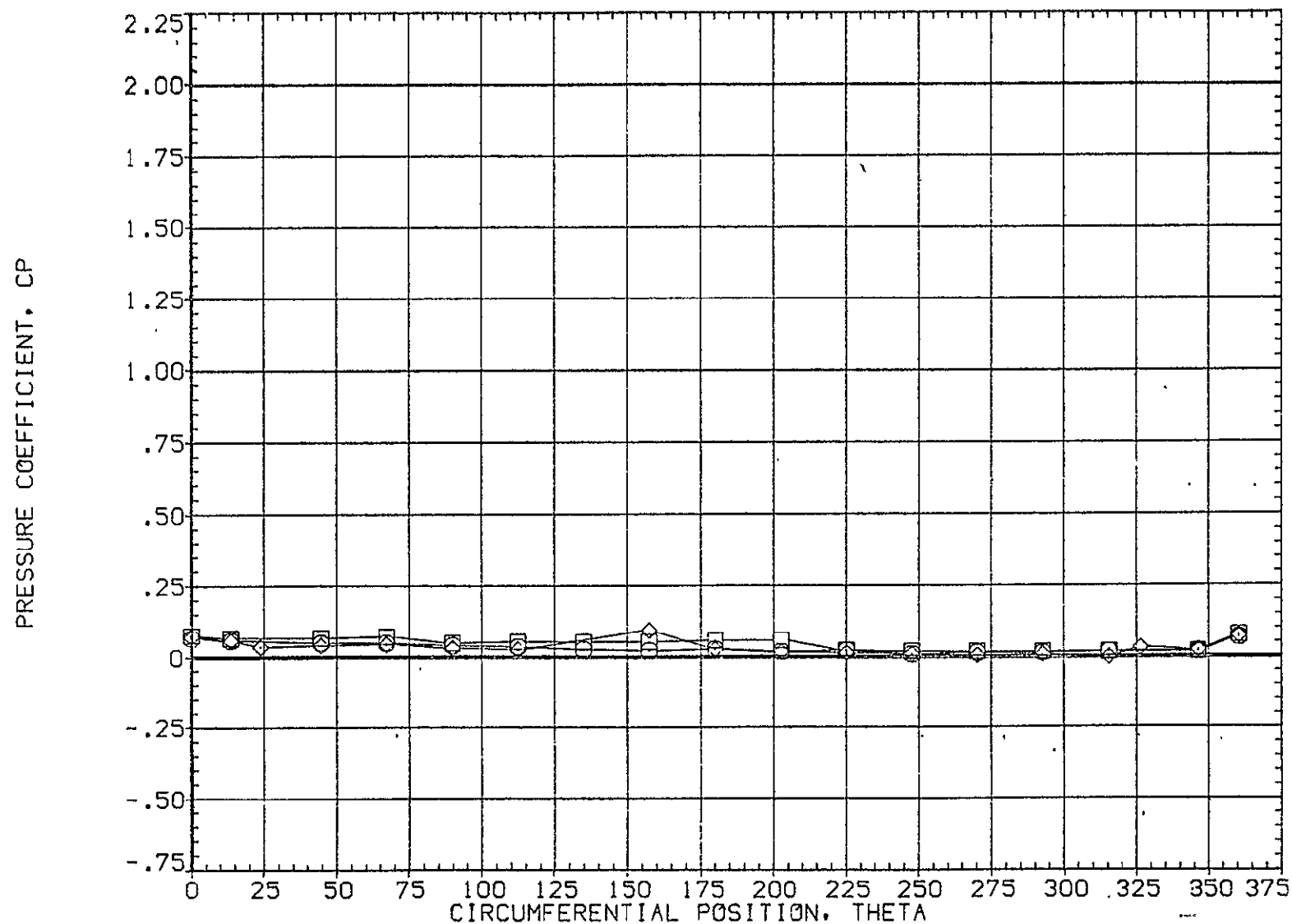


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.892	-4.290	4.960	BETA	.000	OFFSET	.000
□	.923			MOUNT	1.000	PHI	.000
◇	.954						

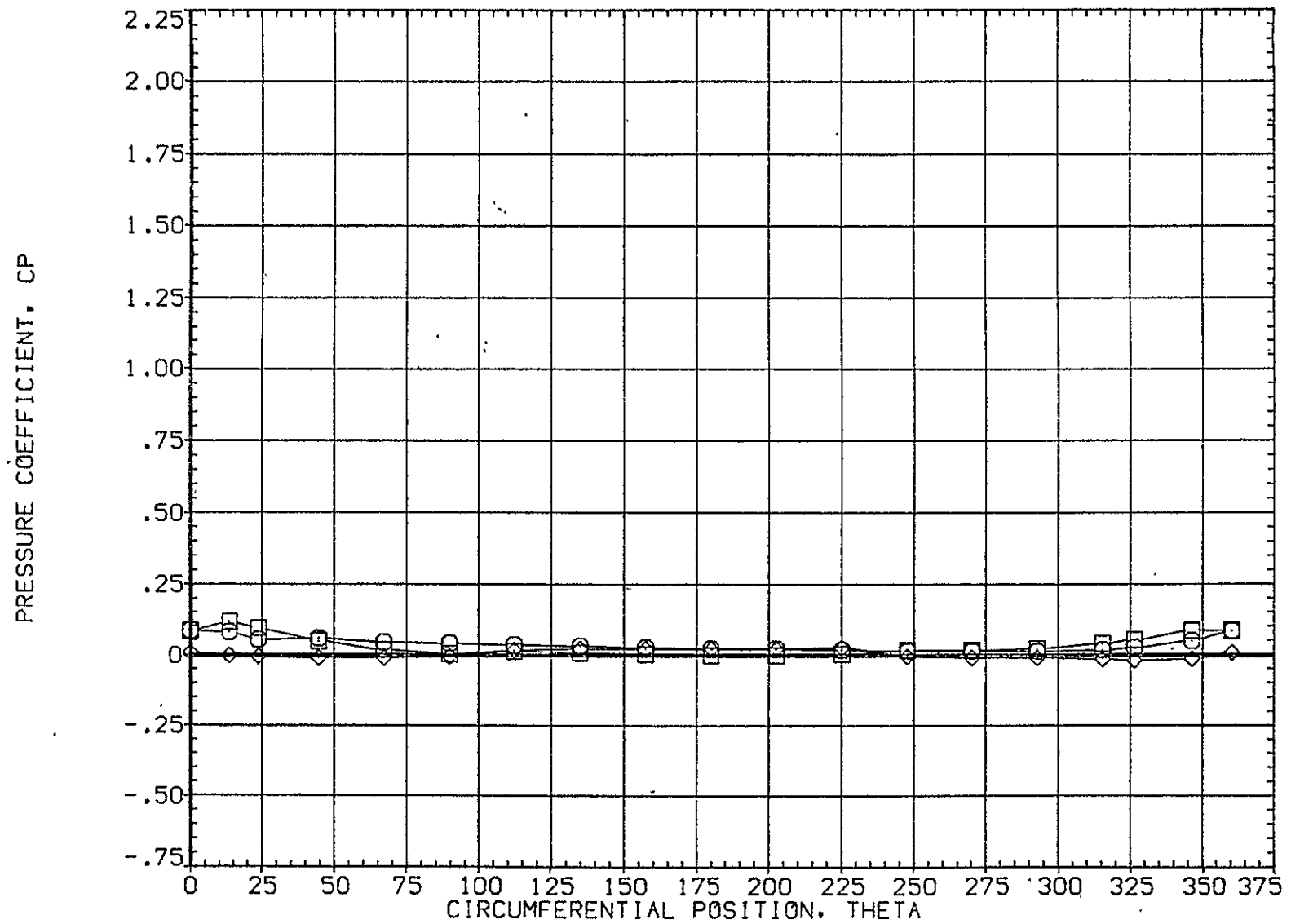


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-.280	4.960	MOUNT	.000	PHI	.000
□	.108				1.000		.000
◇	.162						

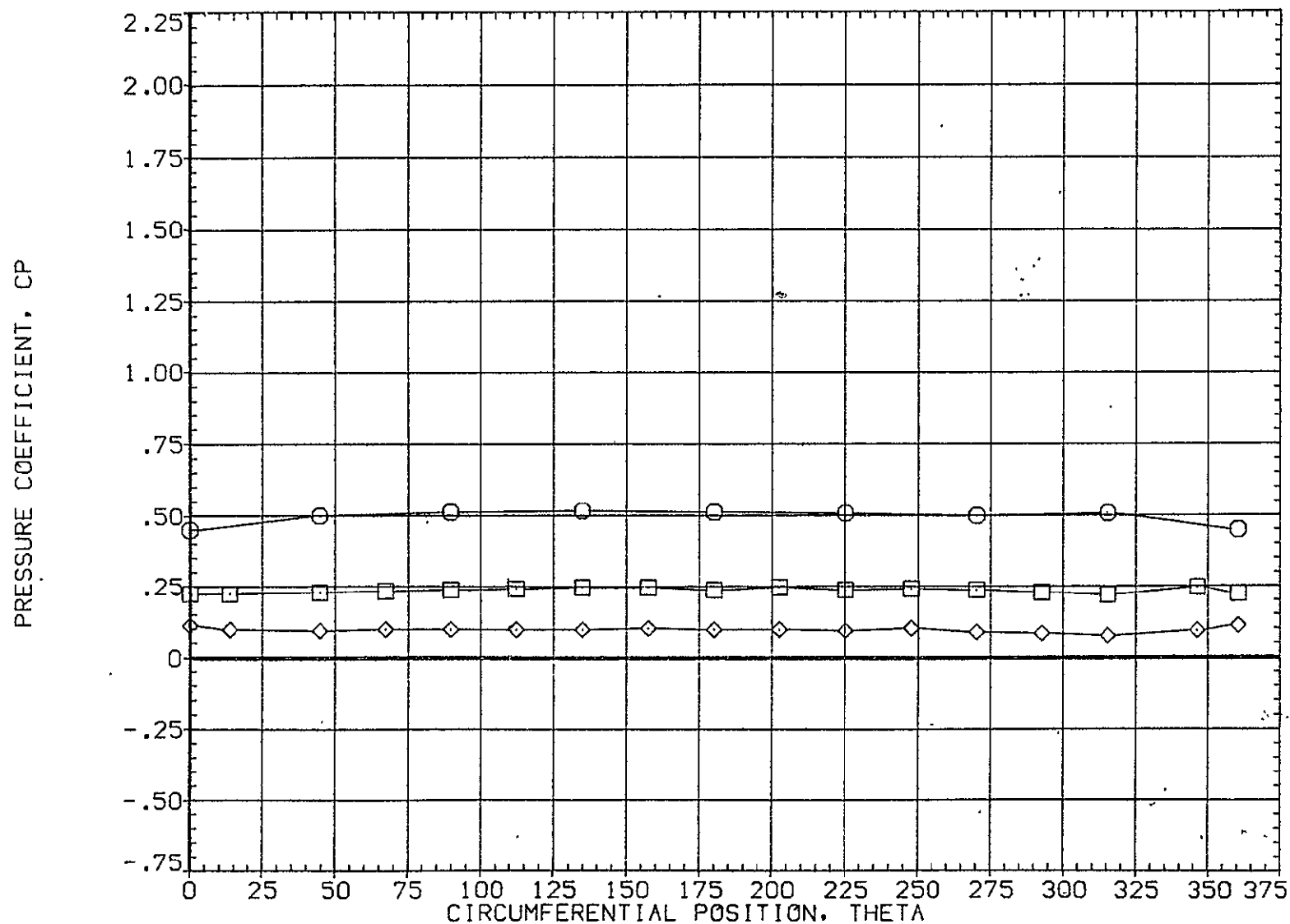


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.216	-.280	4.960		.000	.000
□	.322				1.000	.000
◇	.518					

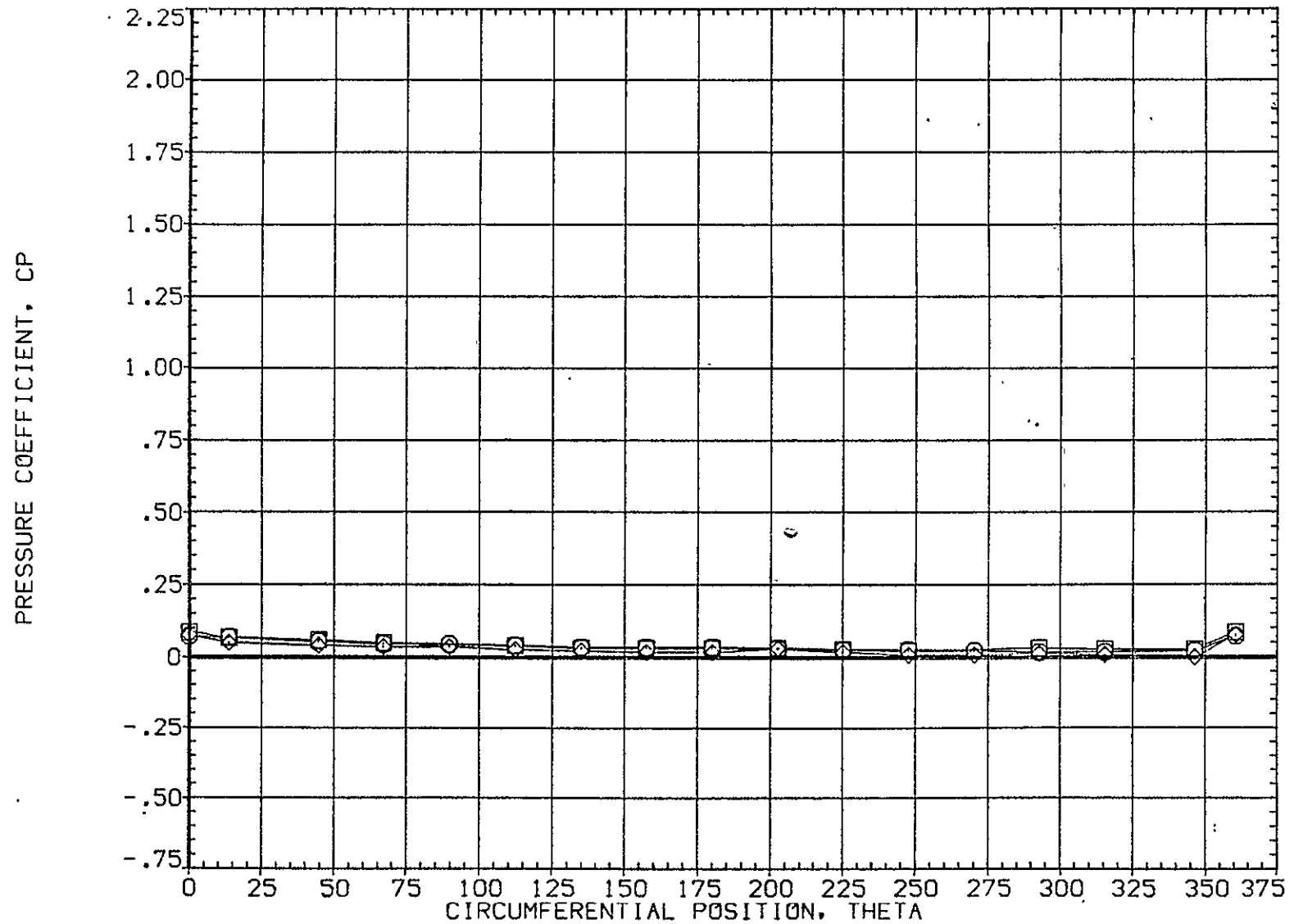


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A003)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.610	-.280	4.960	.000		.000	
□	.735			1.000			
◇	.860						

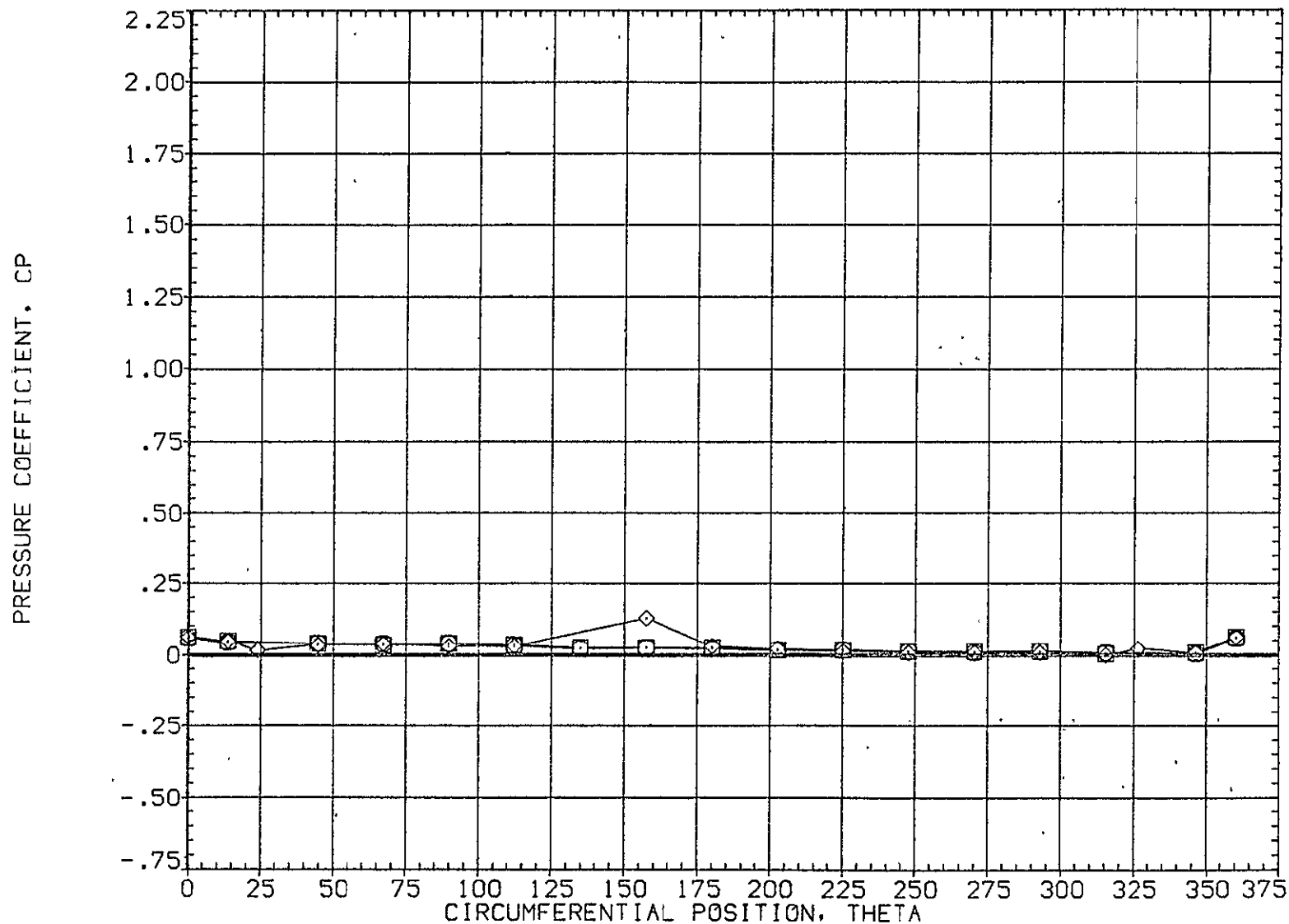


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA MOUNT	OFFSET PHI	.000	.000
○	.892	-.280	4.960				
□	.923						
◇	.954						

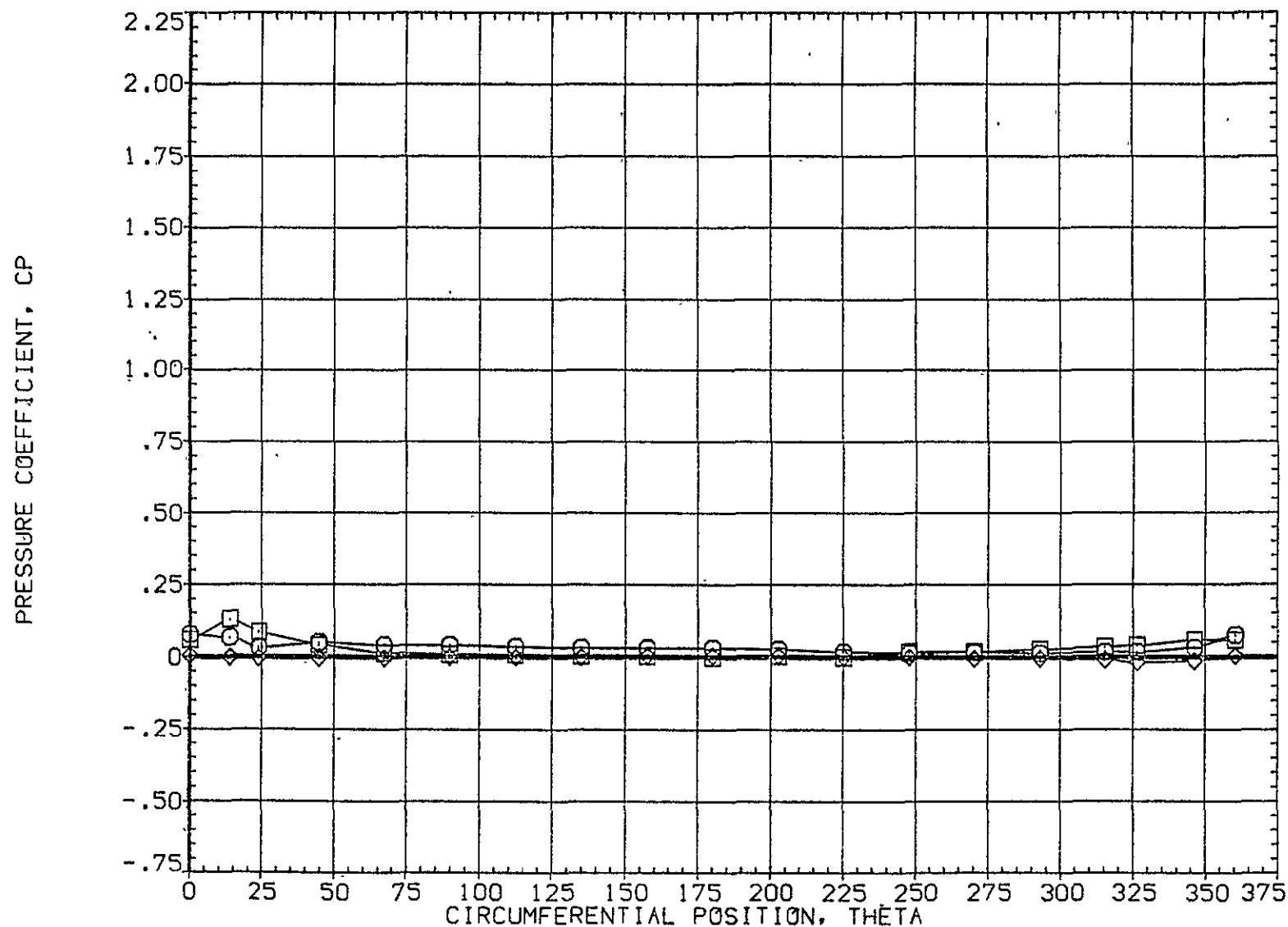


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A004)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	3.730	4.960	MOUNT	1.000	PHI
□	.108					
◇	.162					

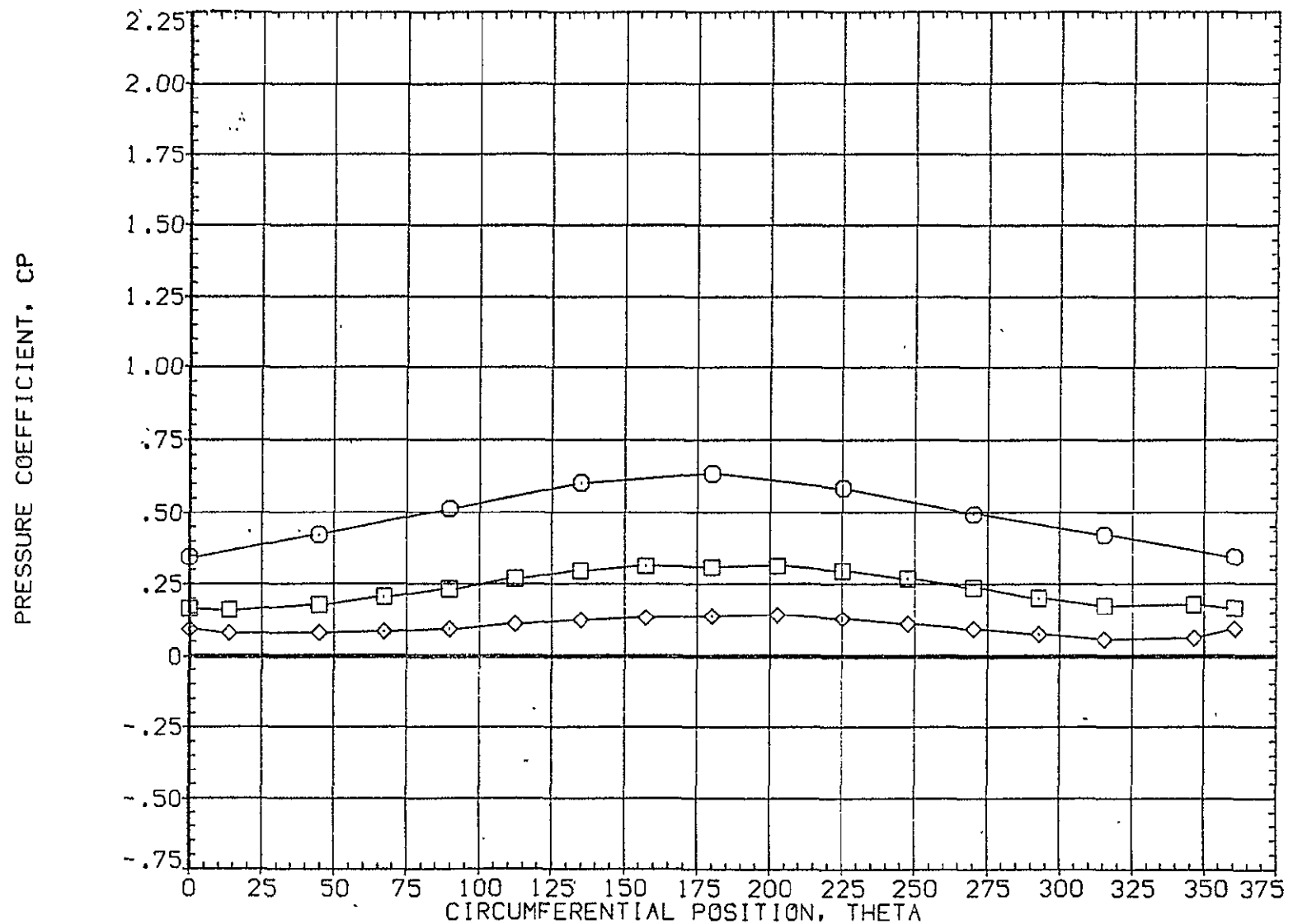


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	3.730	4.960	.000	.000	.000
□	.322			1.000	PHI	.000
◇	.518					

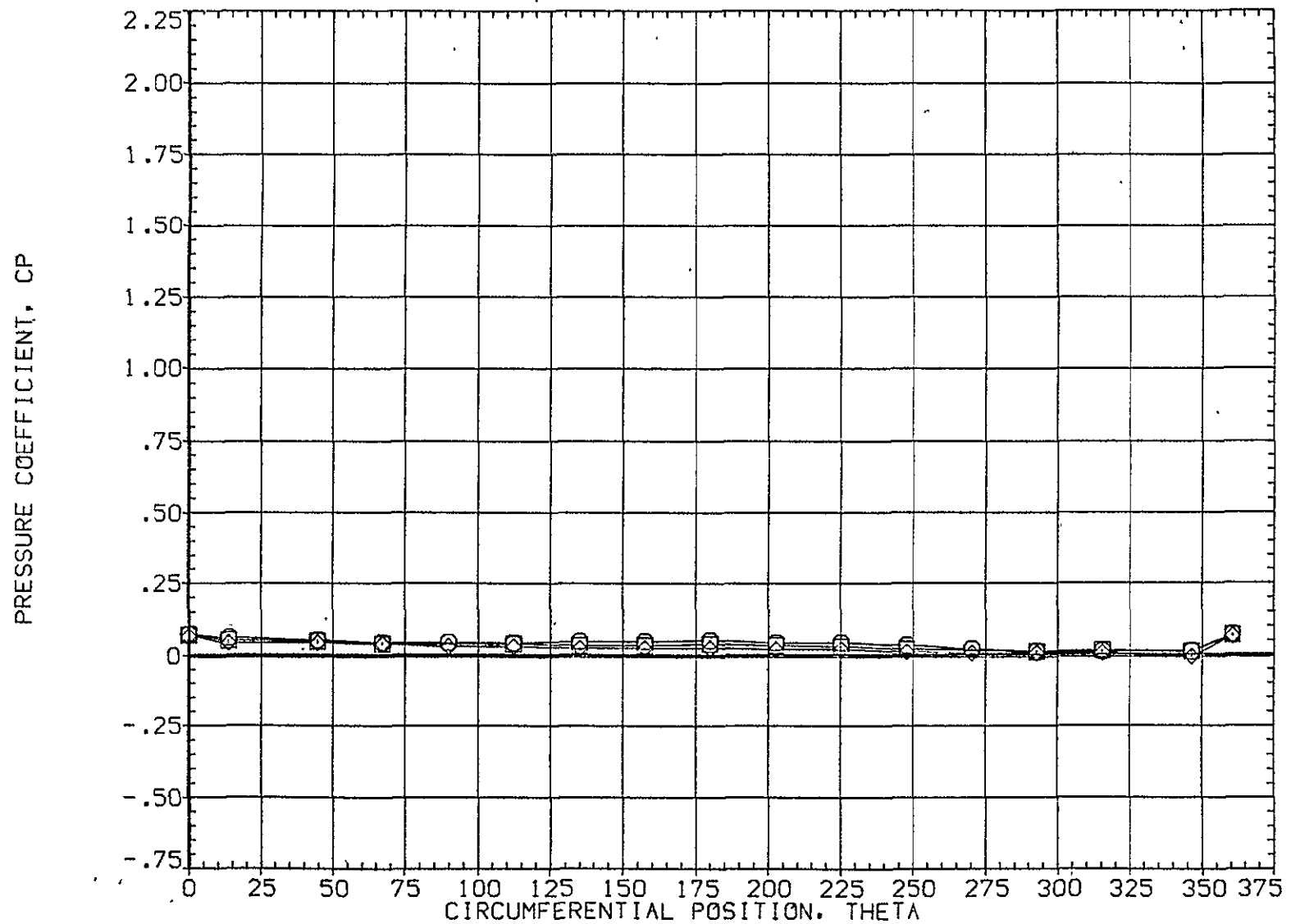


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A004)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	3.730	4.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	.000
◇	.860						

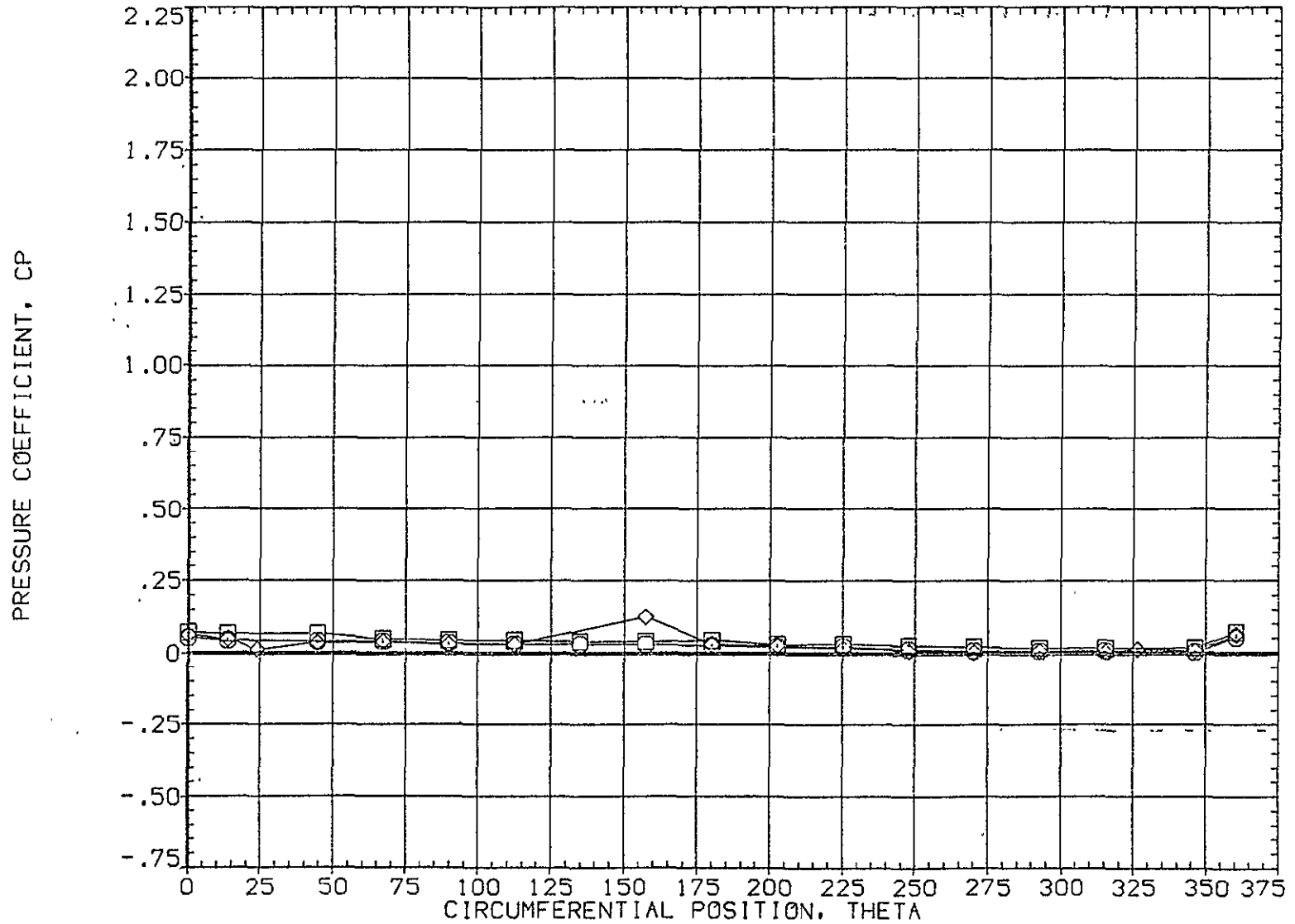


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	3.730	4.960	.000	.000	.000
□	.923			1.000	PHI	.000
◇	.954					

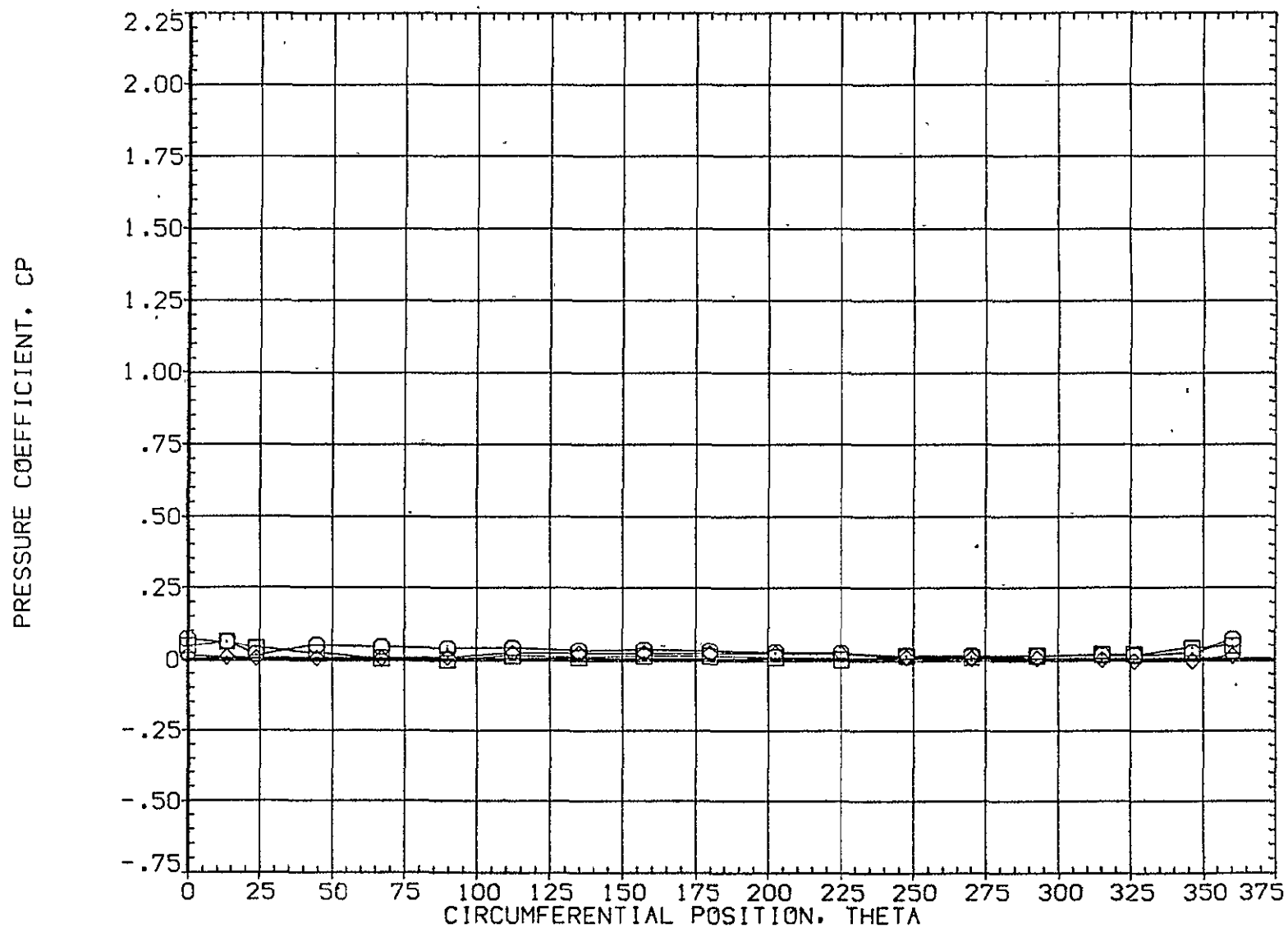


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A005)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	7.750	4.960	MOUNT	.000	PHI	.000
□	.108				1.000		.000
◇	.162						

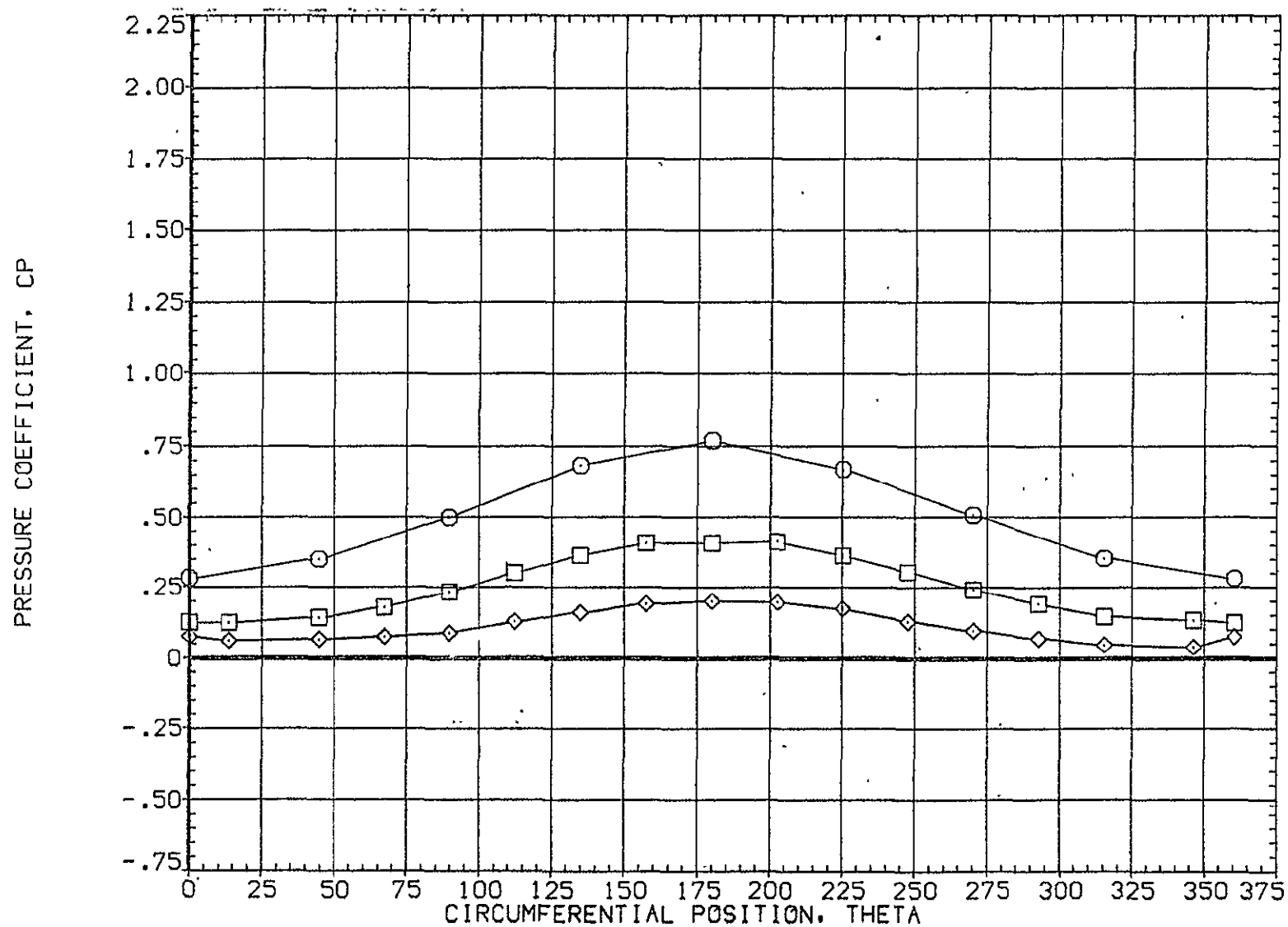


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	7.750	4.960			.000
□	.322			MOUNT	PHI	.000
◇	.518					

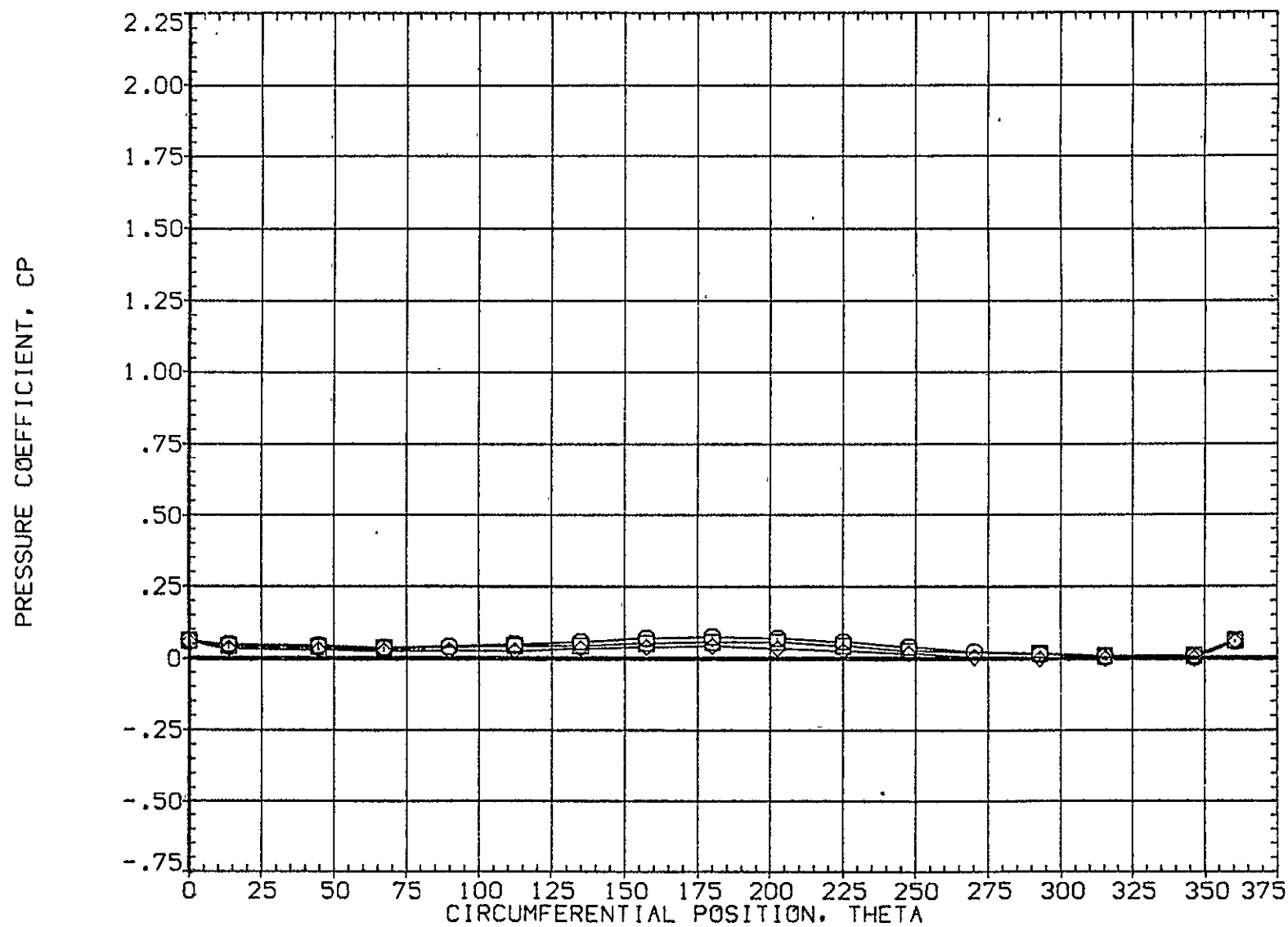


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A005)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.610	7.750	4.960	.000	PHI	.000
□	.735			1.000		.000
◇	.860					

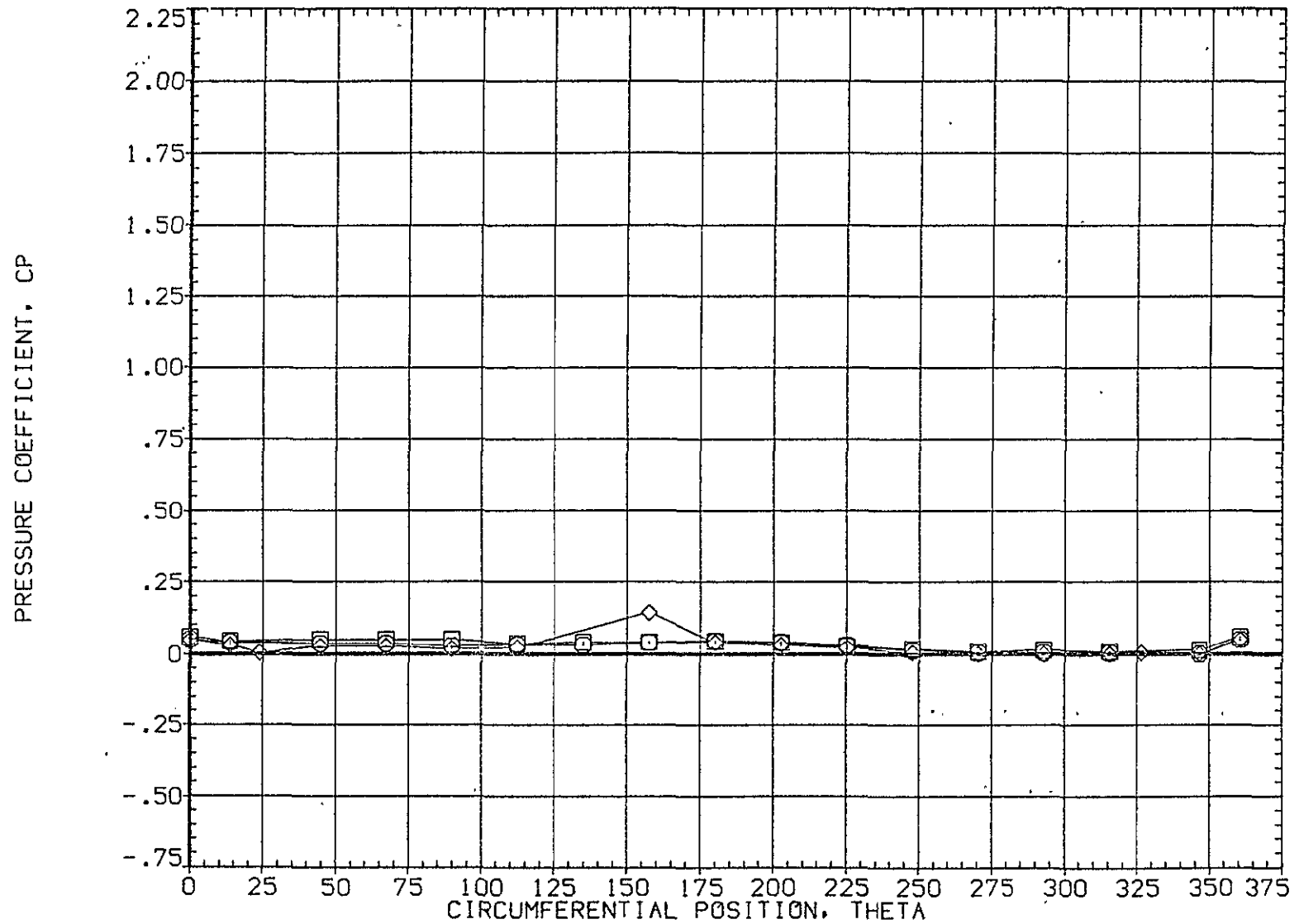


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.892	7.750	4.960			.000
□	.923					.000
◇	.954					.000

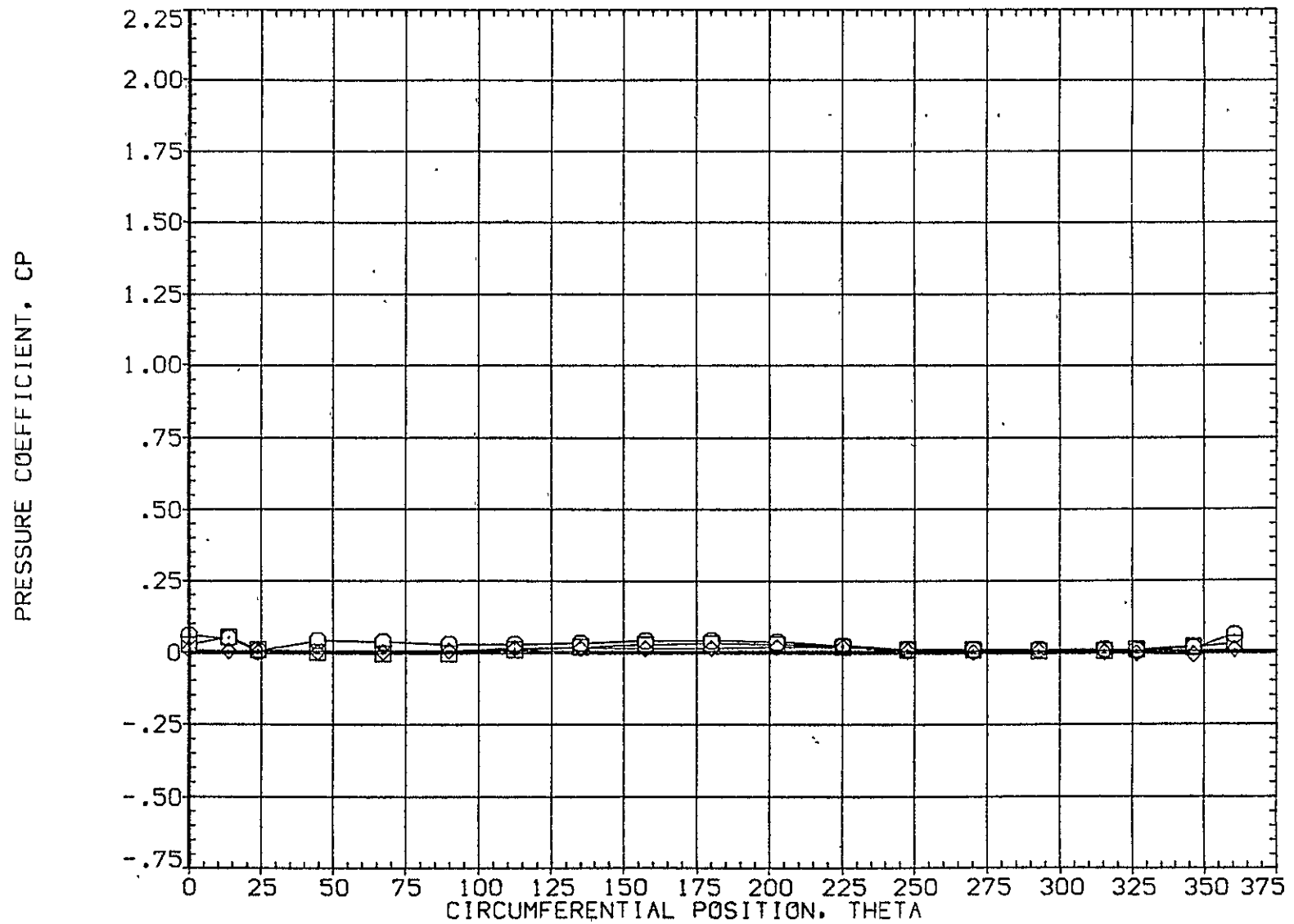


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A006)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.055	12.450	4.960	MOUNT	.000	PHI	.000
□	.108				1.000		
◇	.162						

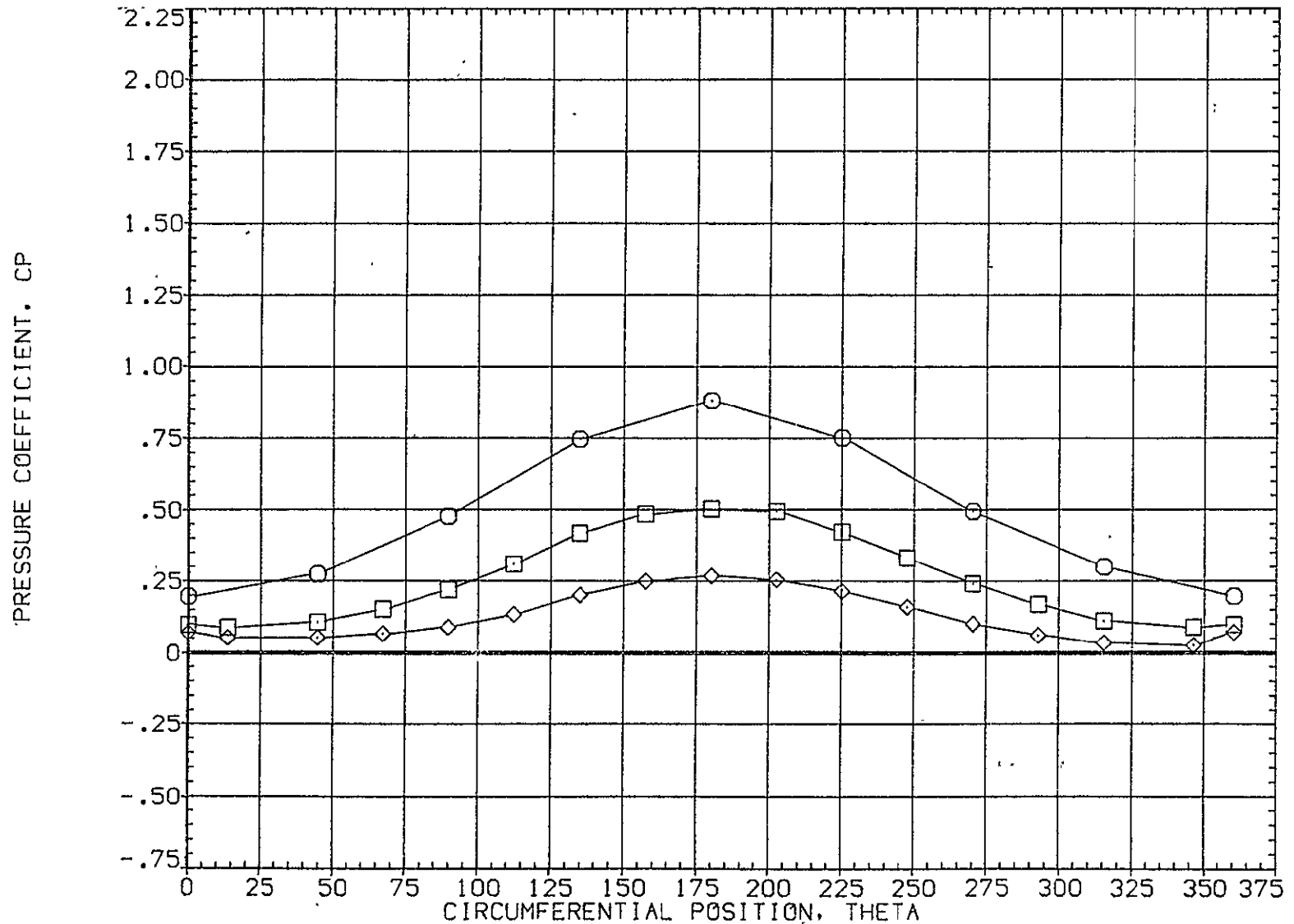


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	12.450	4.960			20.000
□	.322			MGUNT	1.000	PHI
◇	.518					.000

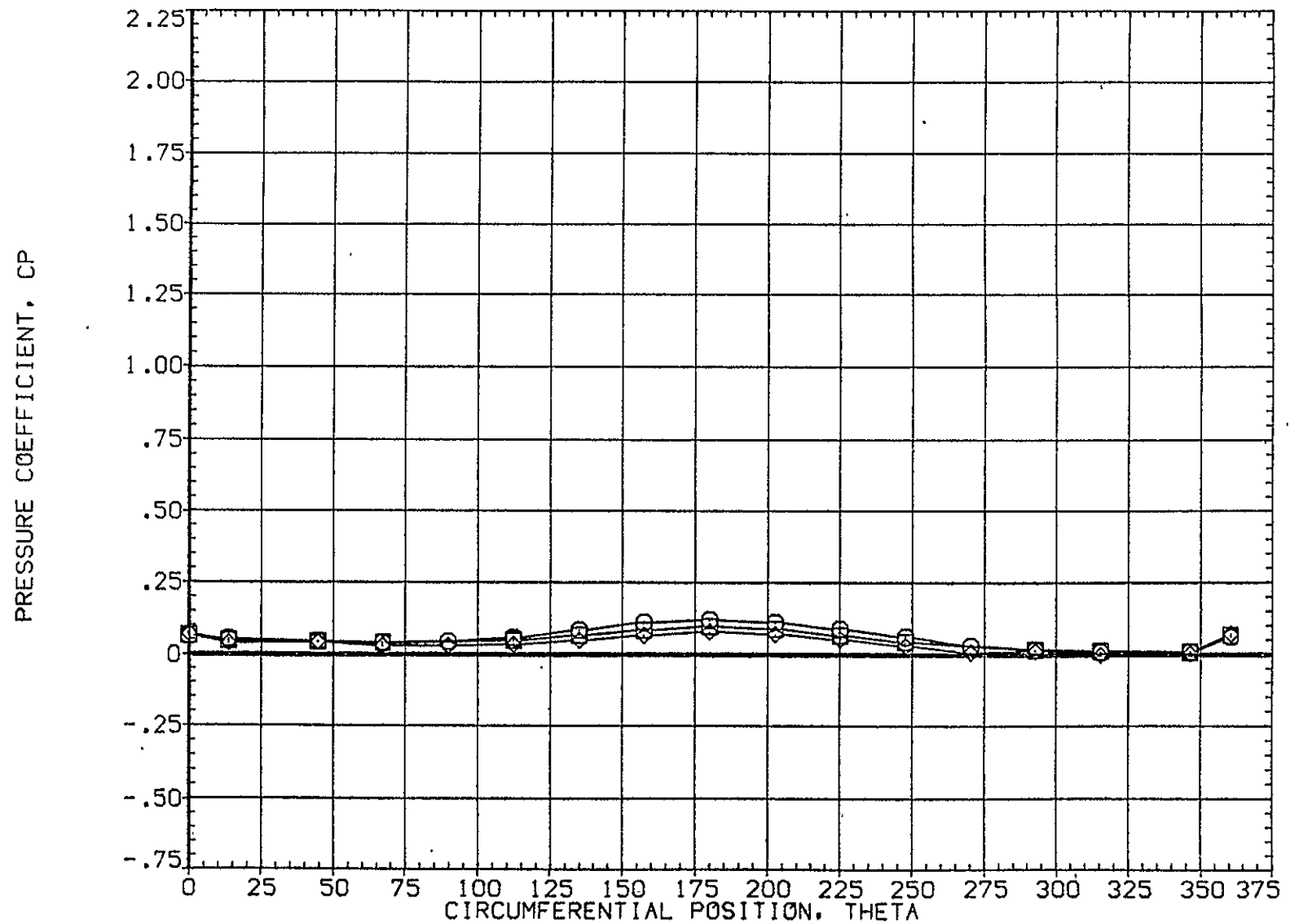


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A006)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	12.450	4.960	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	.000
◇	.860						

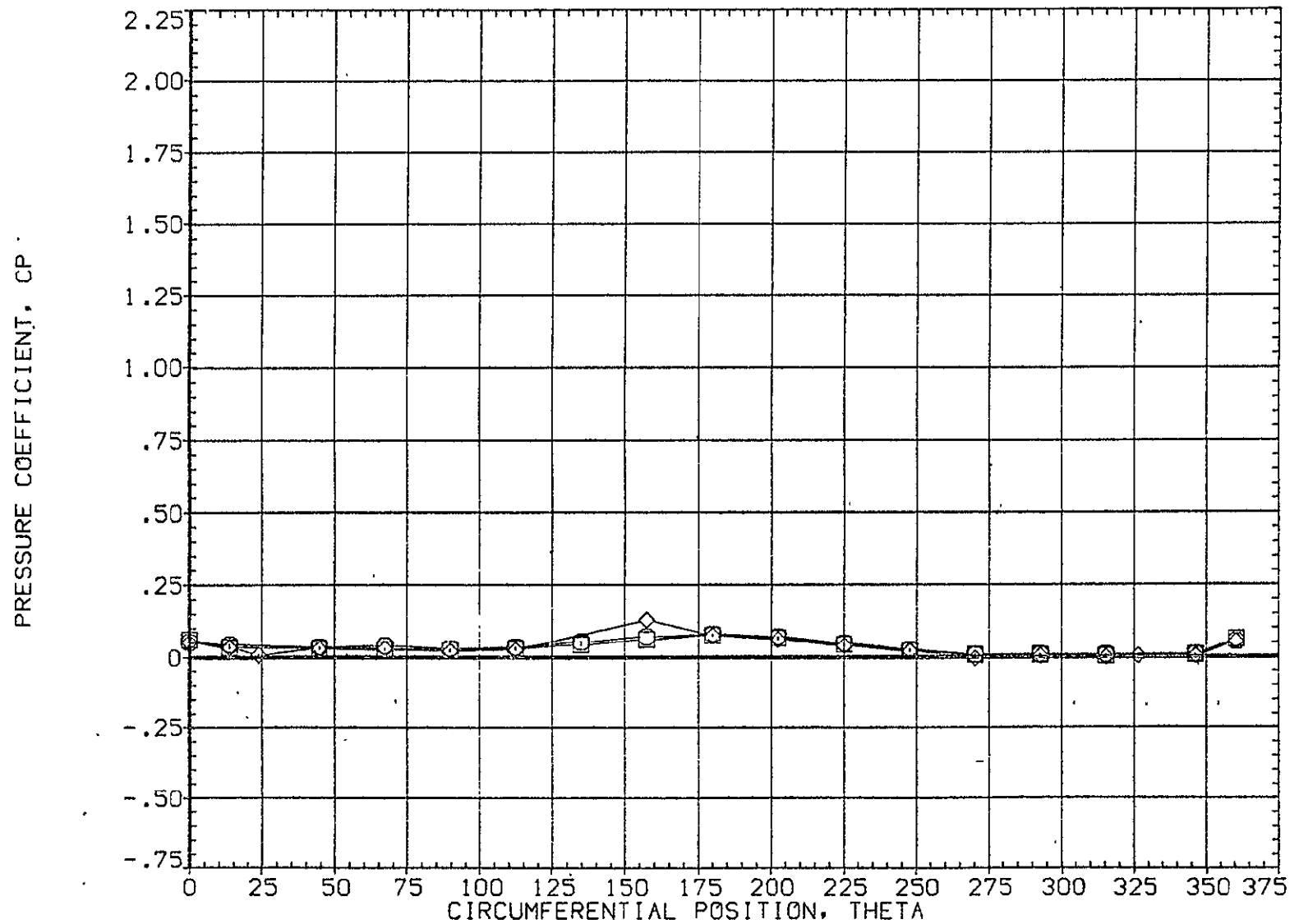


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	12.450	4.960	.000		20.000	
□	.923			1.000	PHI	.000	
◇	.954						

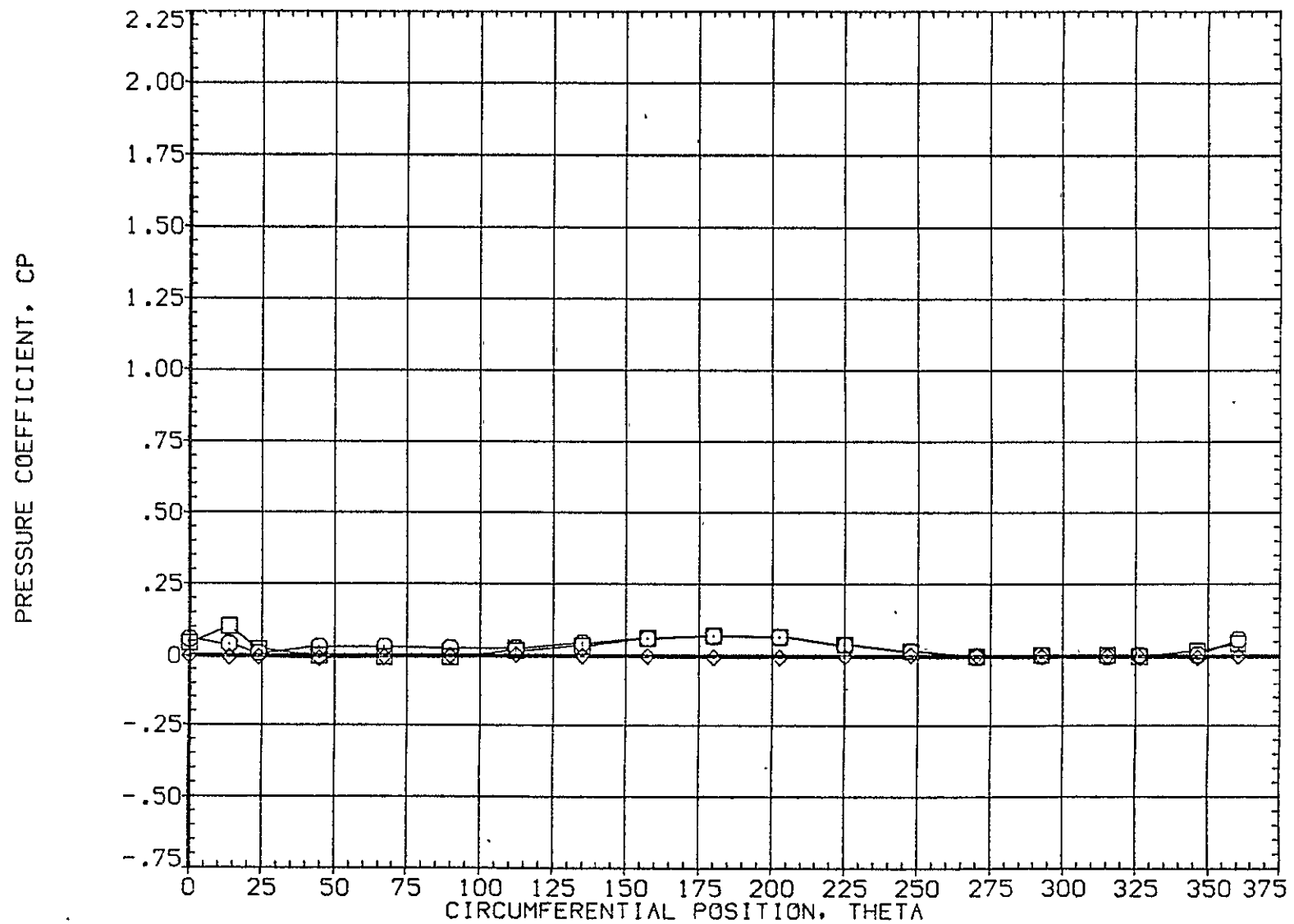


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A007)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.055	16.470	4.960	MOUNT	.000	PHI	.000
□	.108				1.000		
◇	.162						

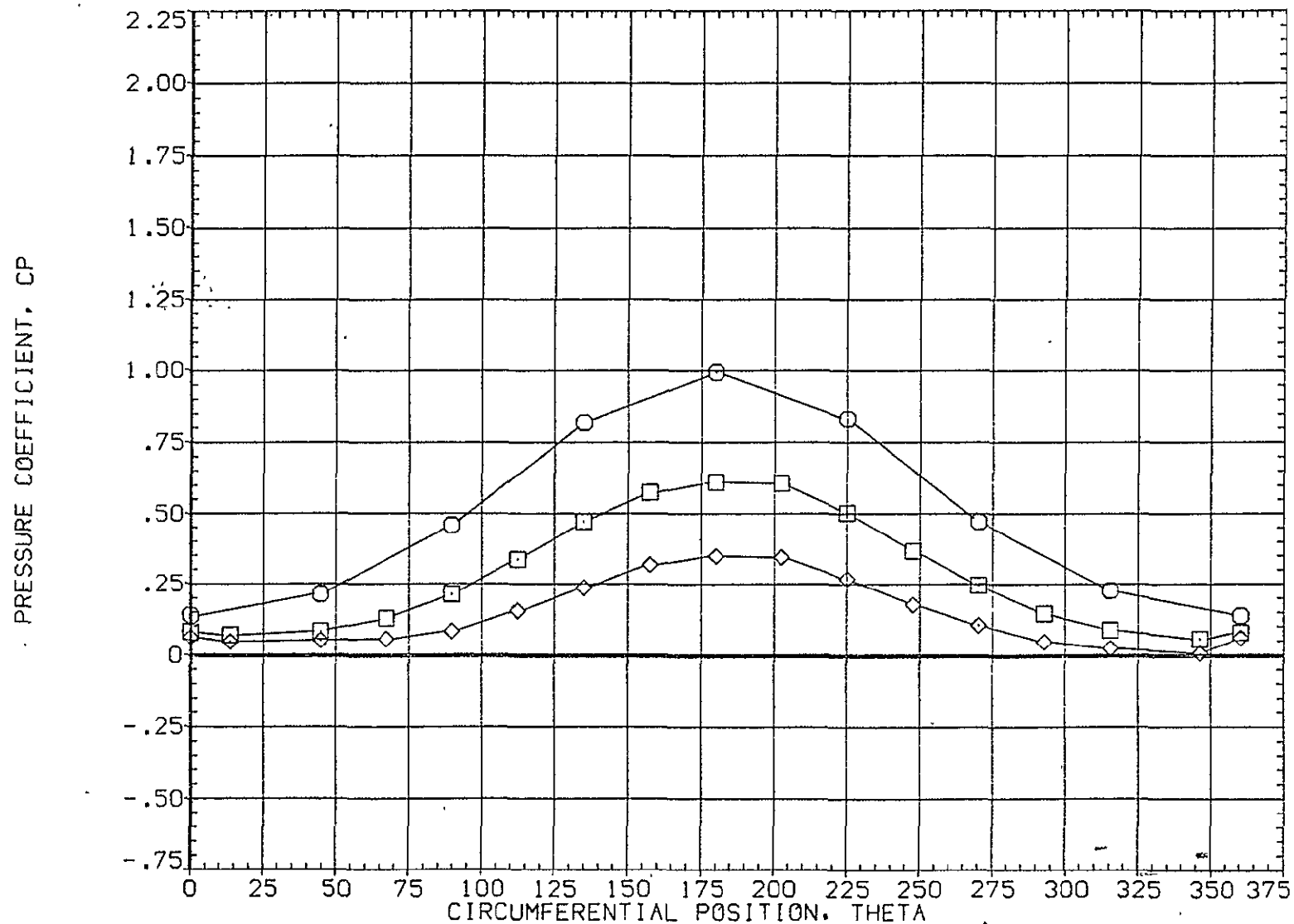


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.216	16.470	4.960	MOUNT	.000	PHI	.000
□	.322				1.000		
◇	.518						

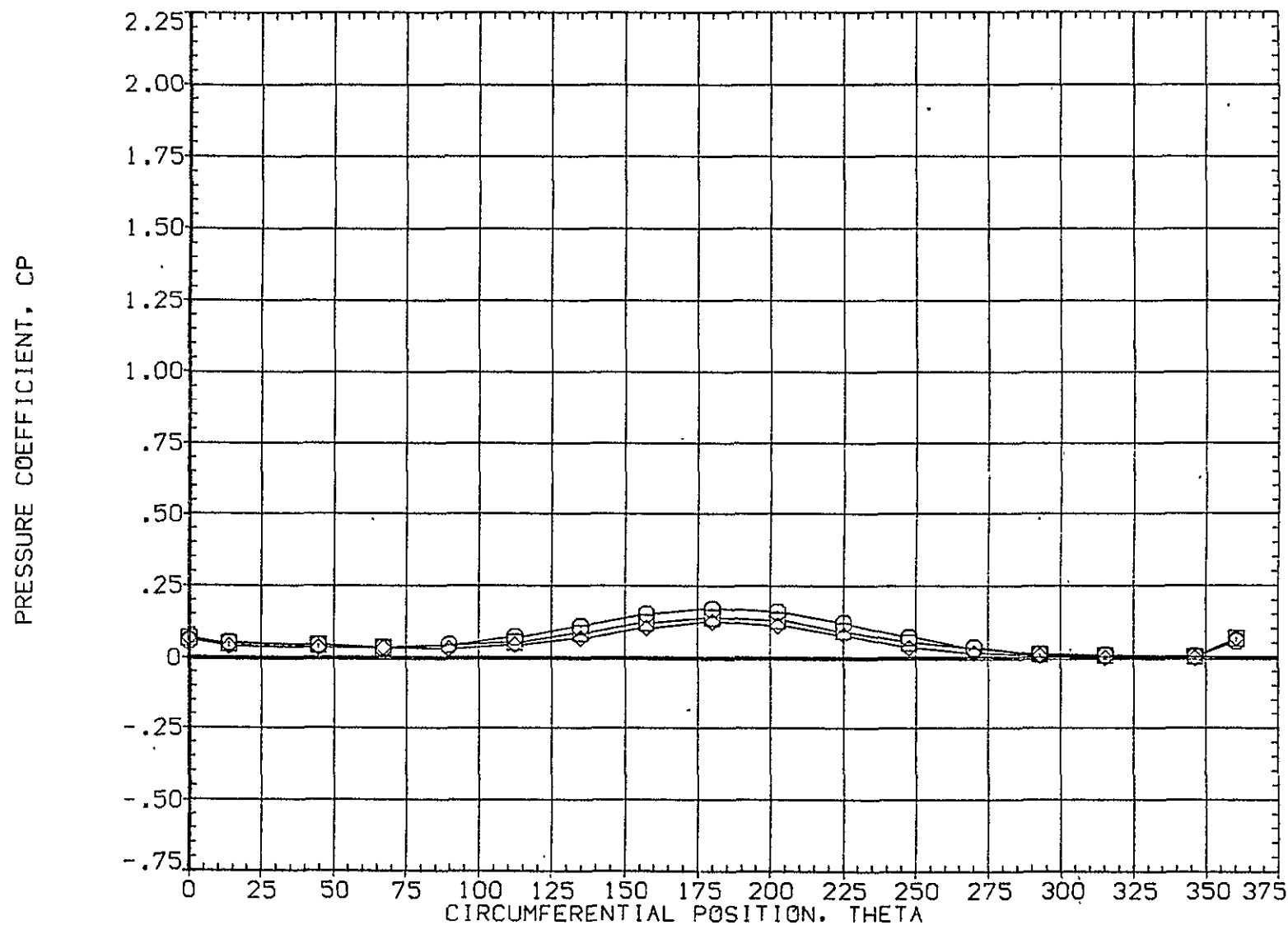


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A007)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	16.470	4.960	MOUNT	.000	PHI	.000
□	.735				1.000		
◇	.860						

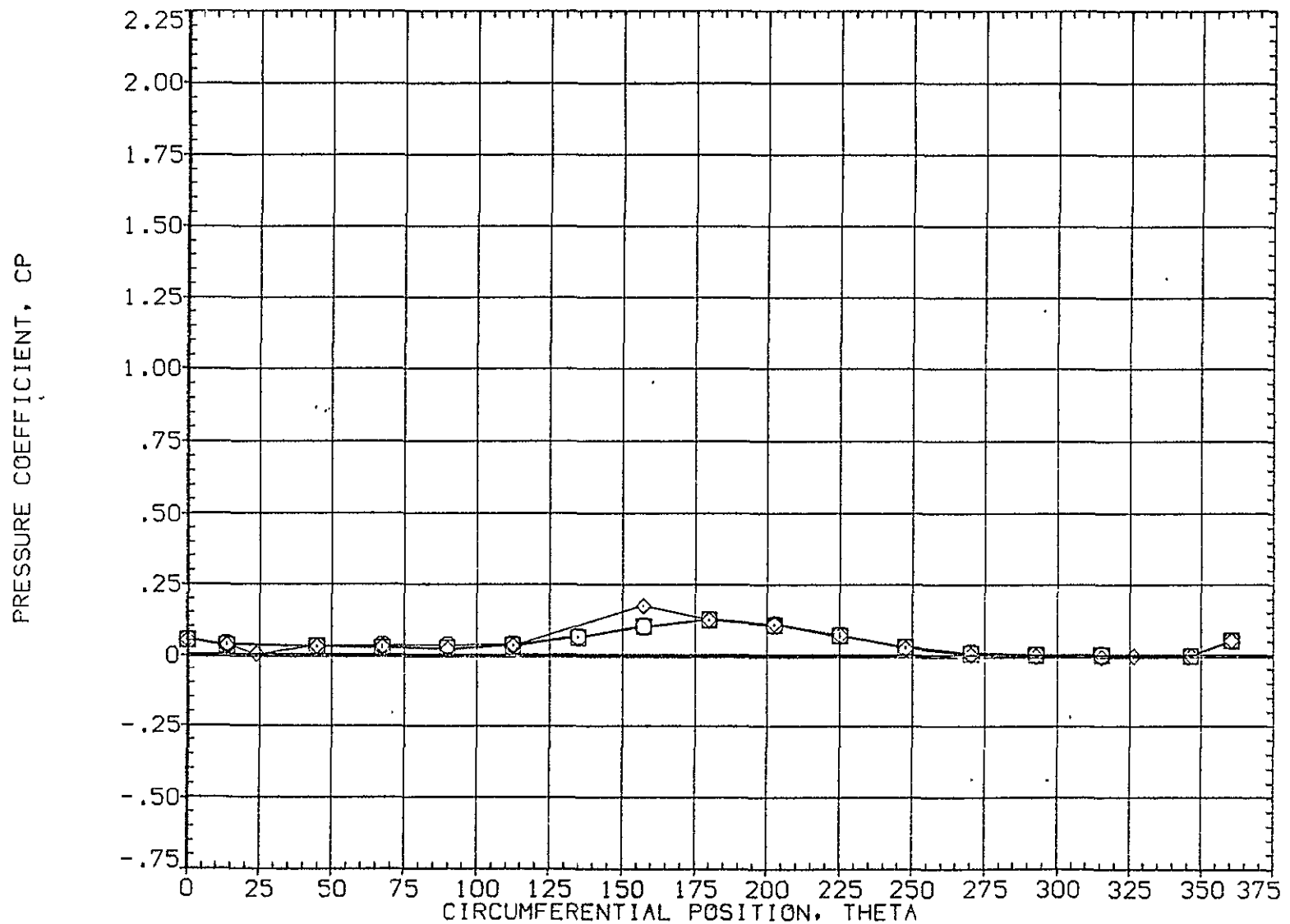


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.892	16.470	4.960	MOUNT	1.000	PHI .000
□	.923					
◇	.954					

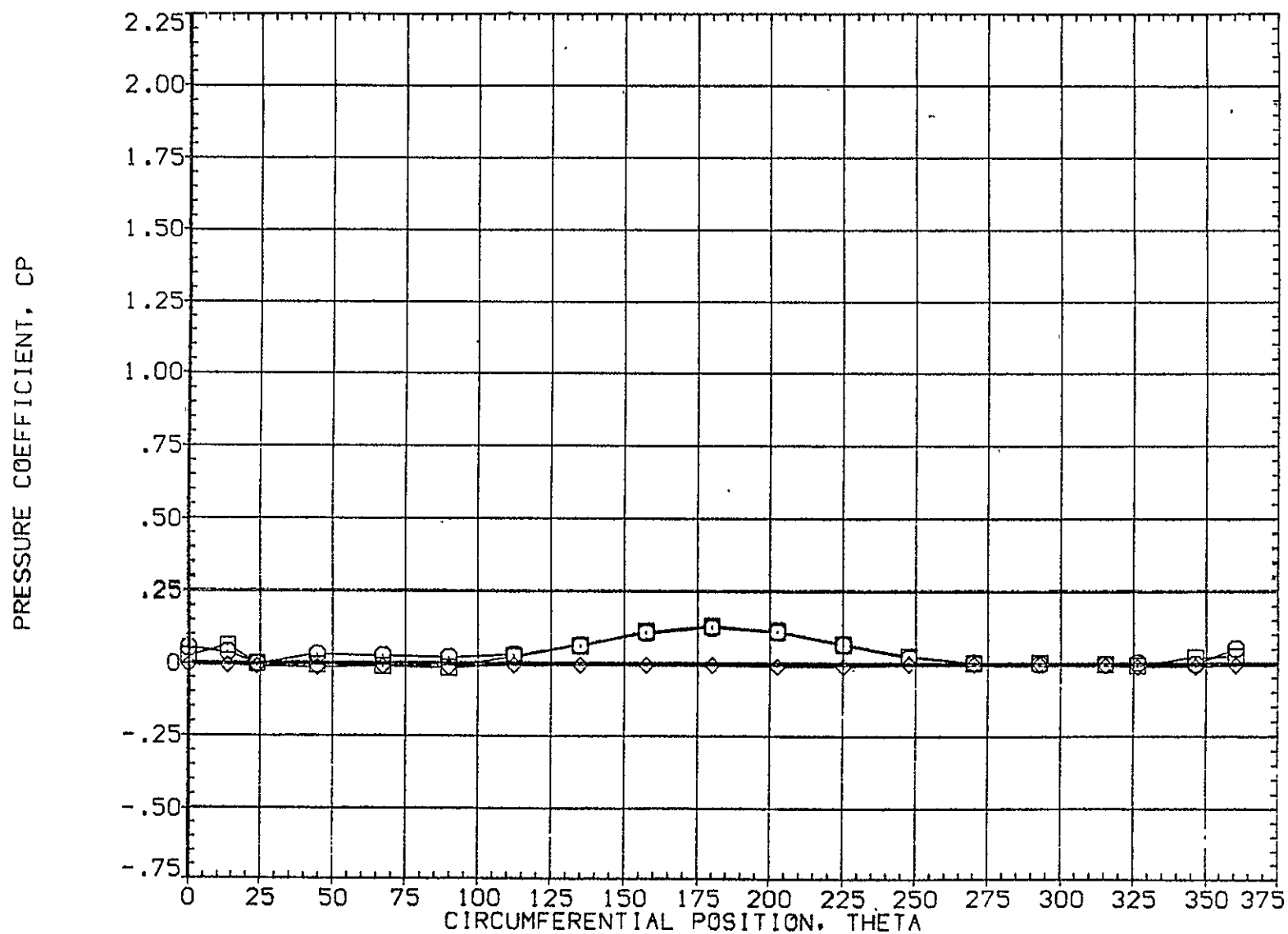


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A008)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	20.490	4.960	MOUNT	.000	OFFSET	20.000
□	.108				1.000	PHI	.000
◇	.162						

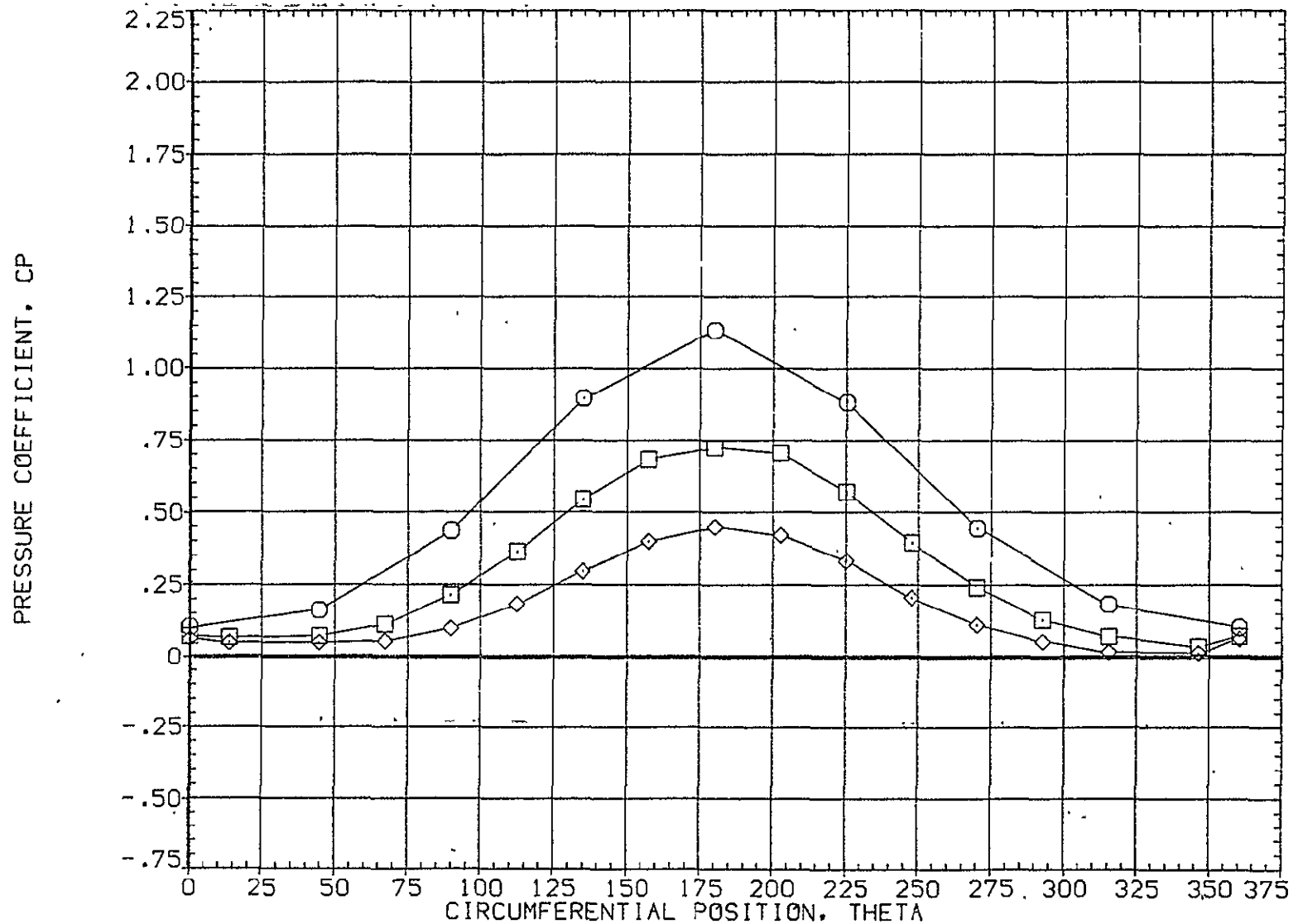


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 .000
○	.216	20.490	4.960			
□	.322					
◇	.518					

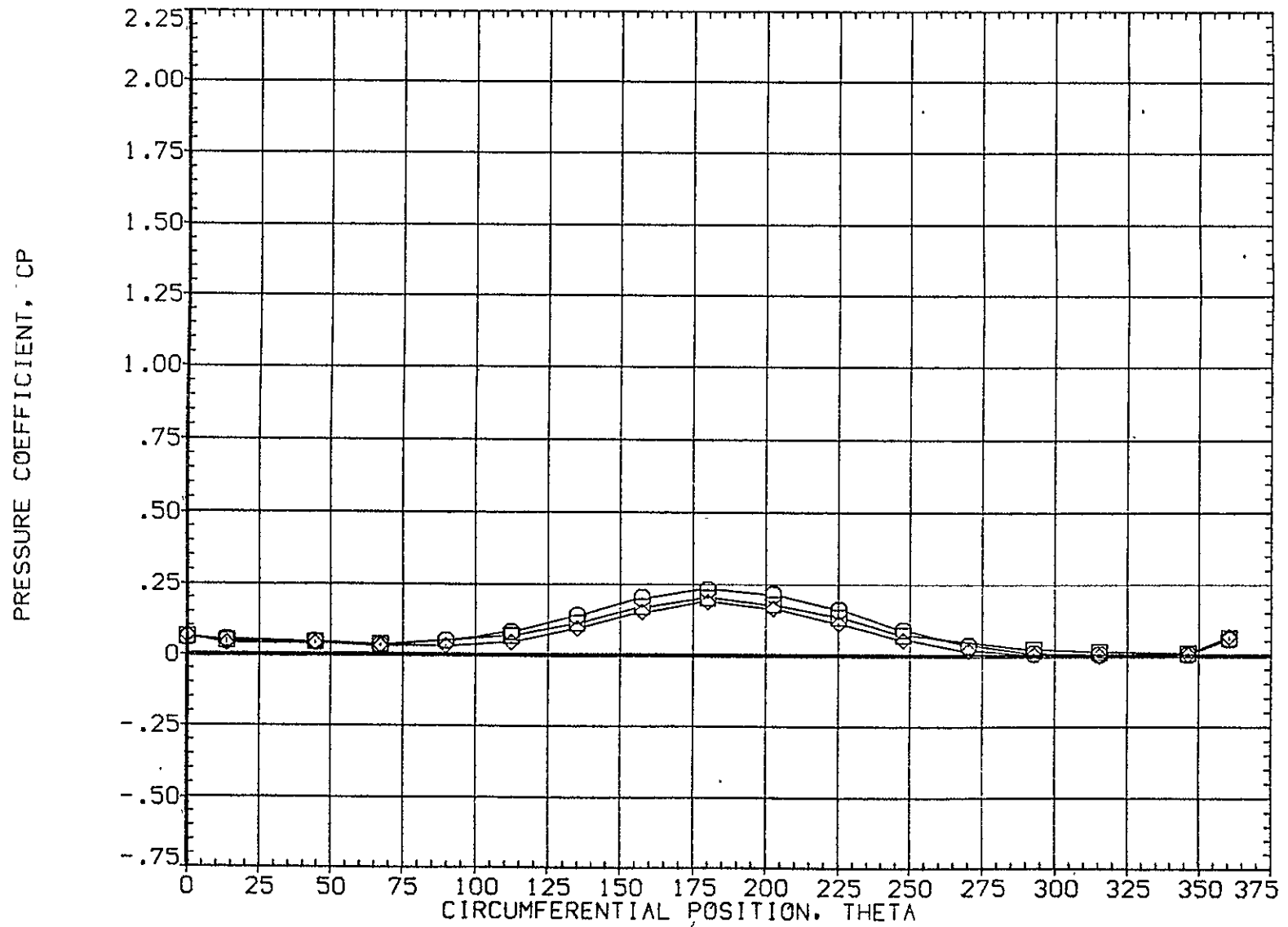


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A008)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	20.490	4.960	BETA	.000	OFFSET	20.000
□	.735			MOUNT	1.000	PHI	.000
◇	.860						

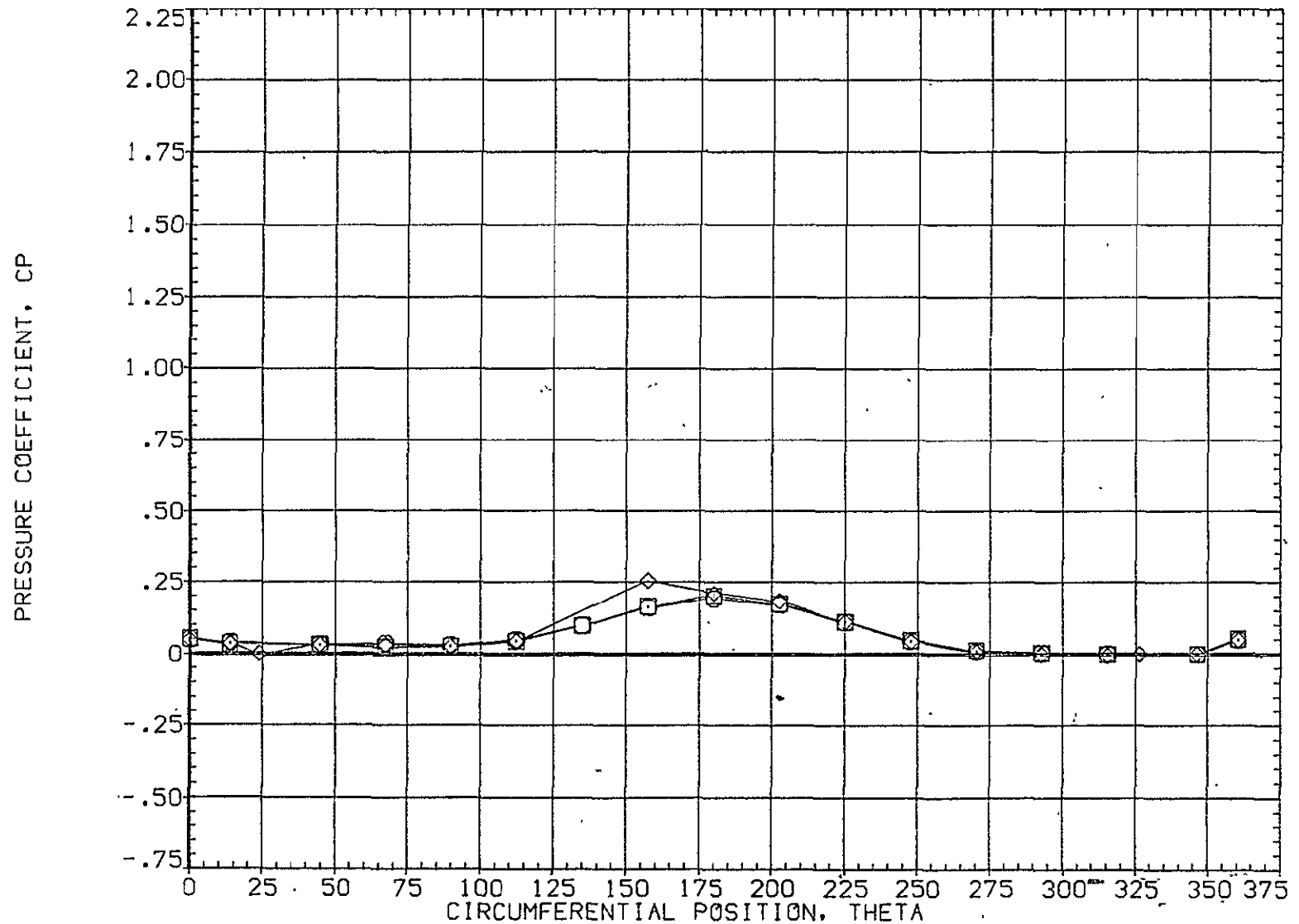


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES.

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.892	20.490	4.960	.000	20.000	
□	.923			1.000	.000	
◇	.954					

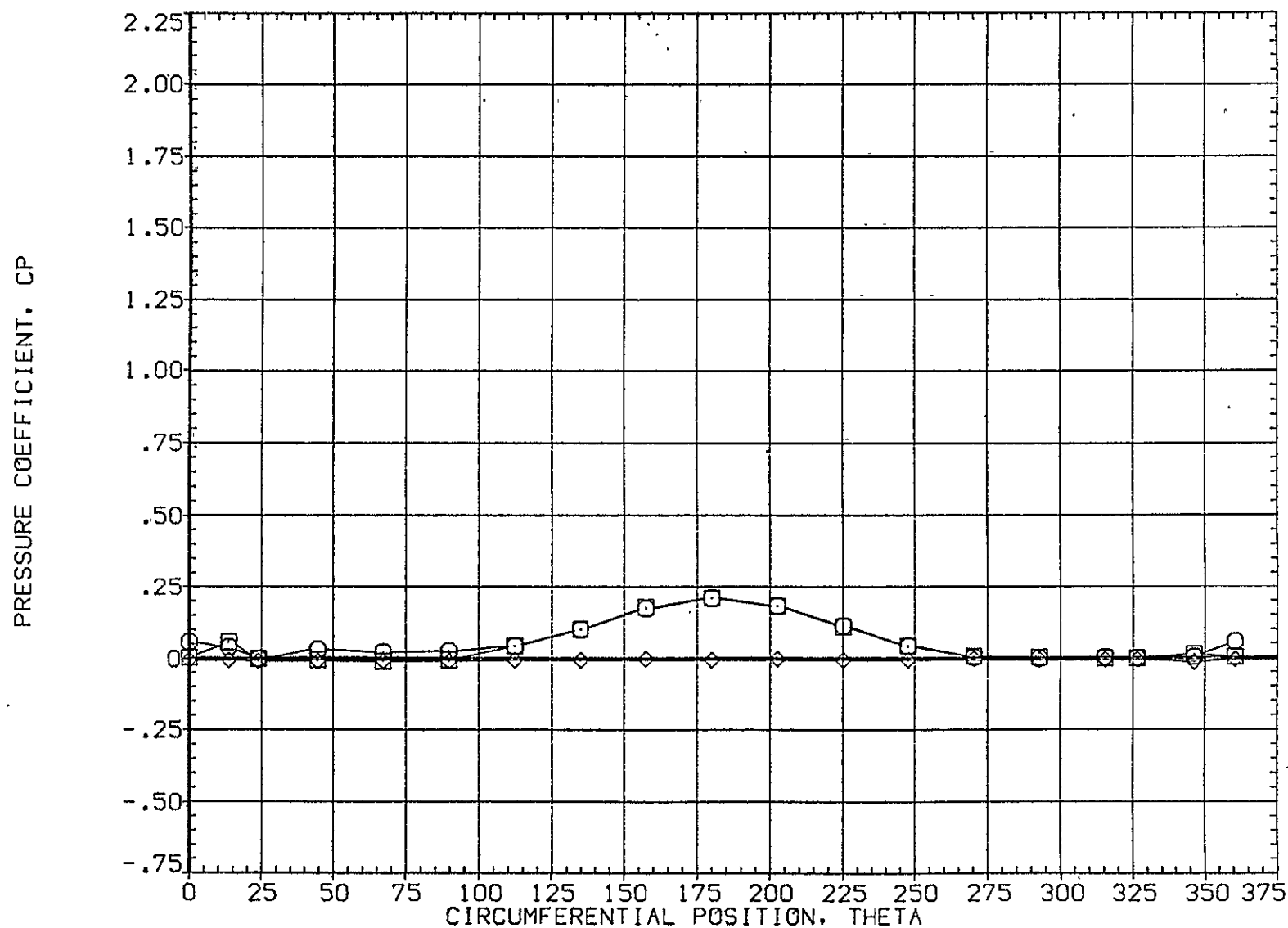


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.055	24.510	4.960	MOUNT	1.000	PHI
□	.108					.000
◇	.162					.000

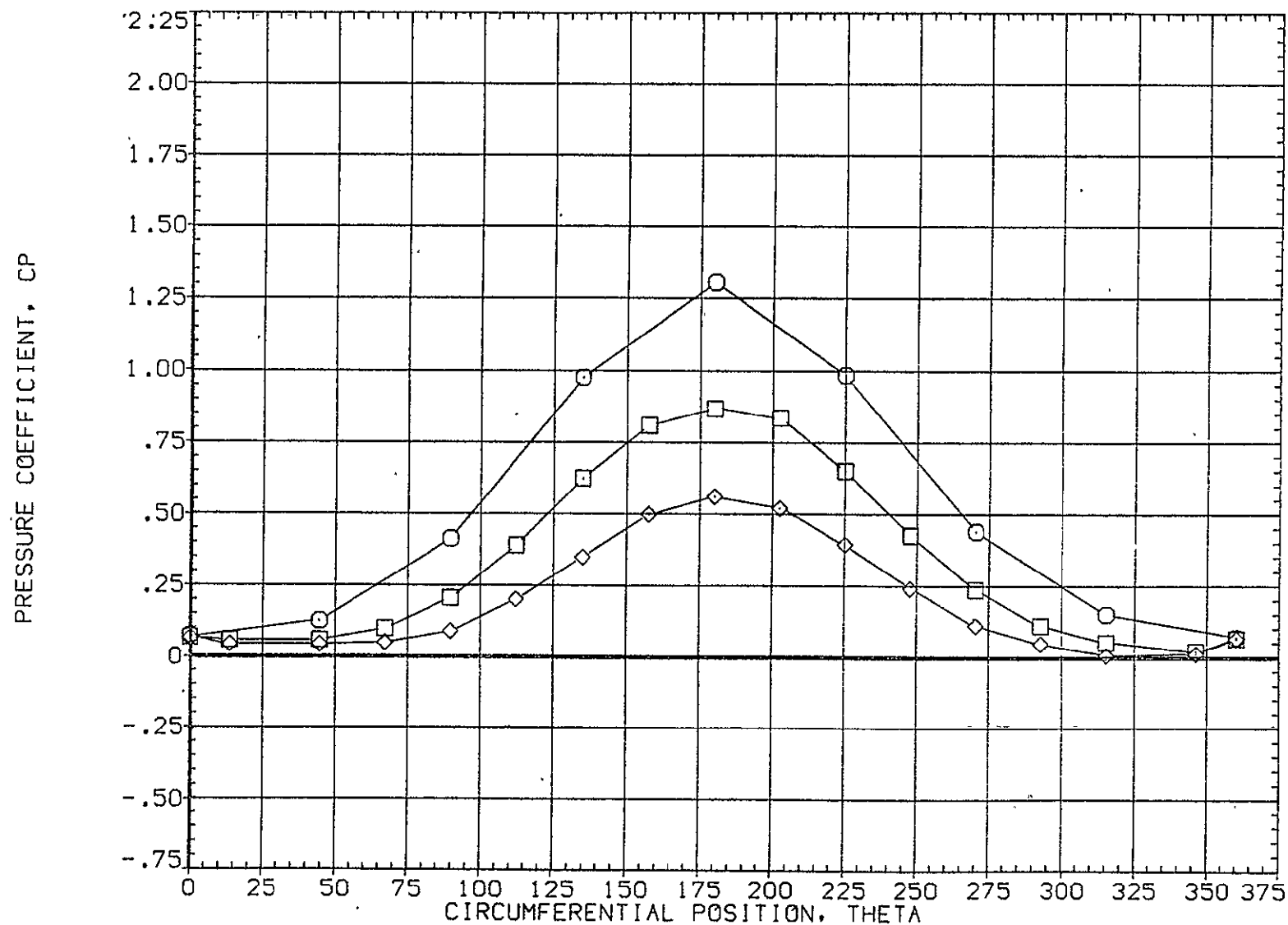


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	24.510	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI .000

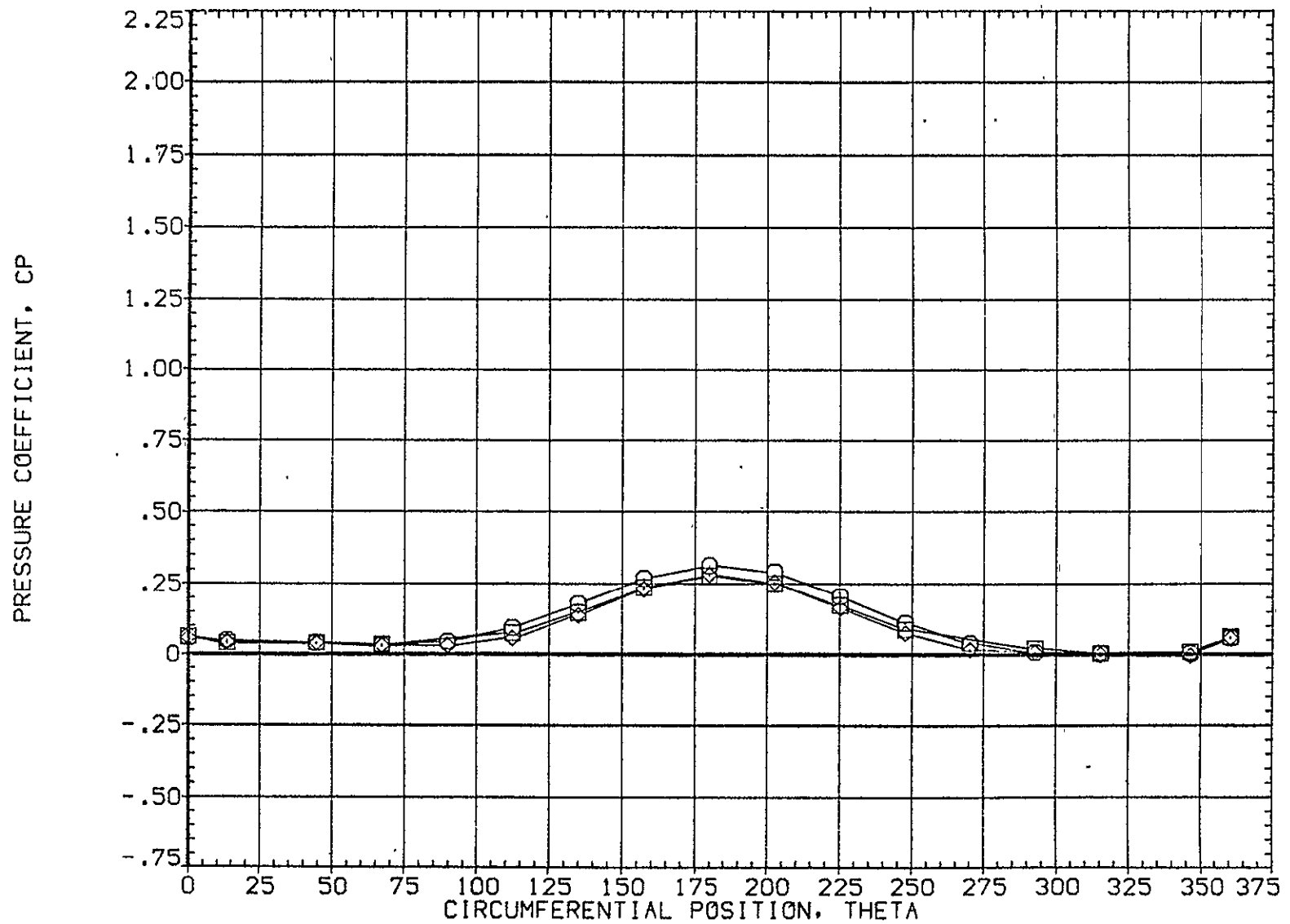


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	24.510	4.960		.000		20.000
□	.735			MOUNT	1.000		.000
◇	.860						

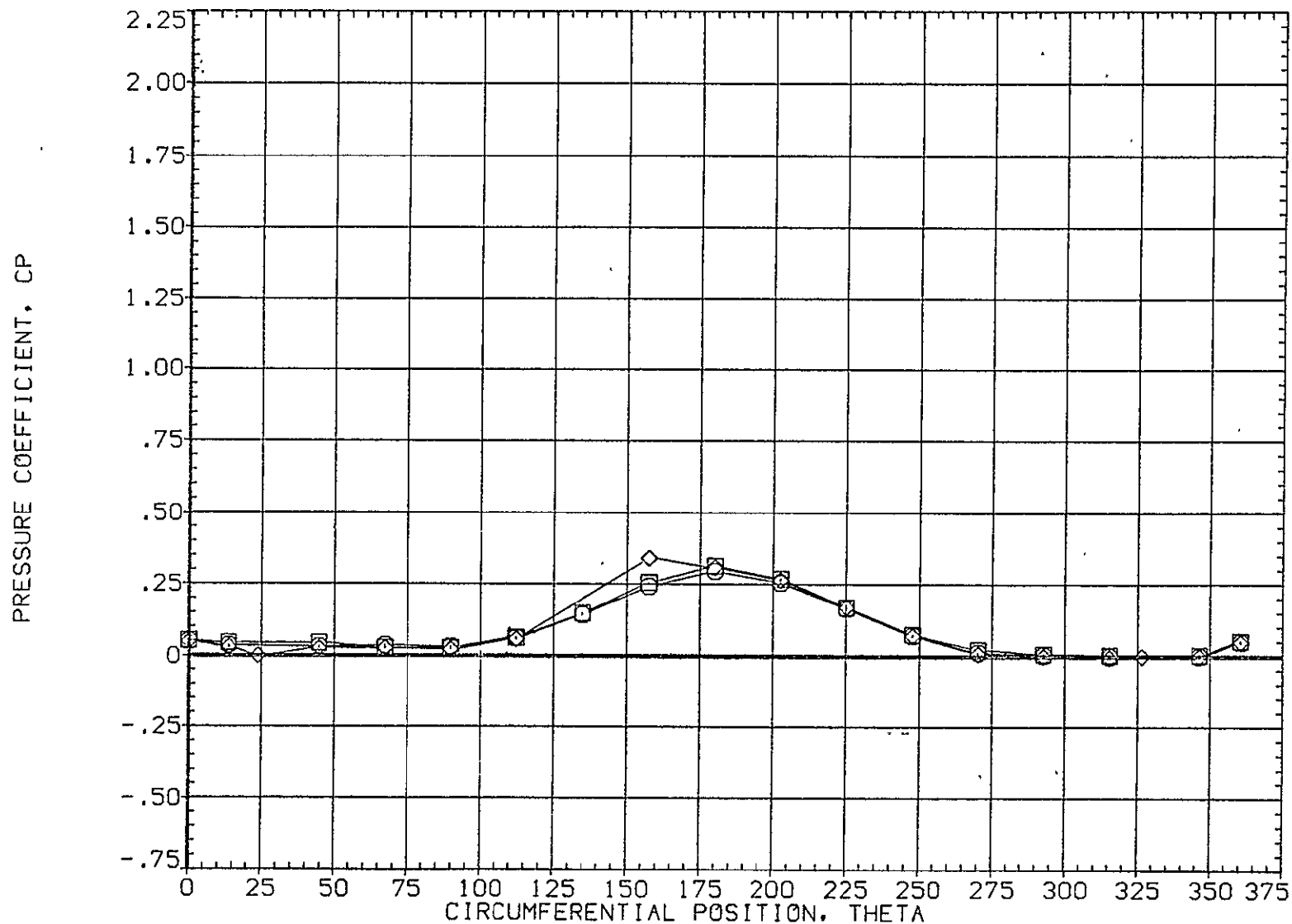


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	24.510	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	.000

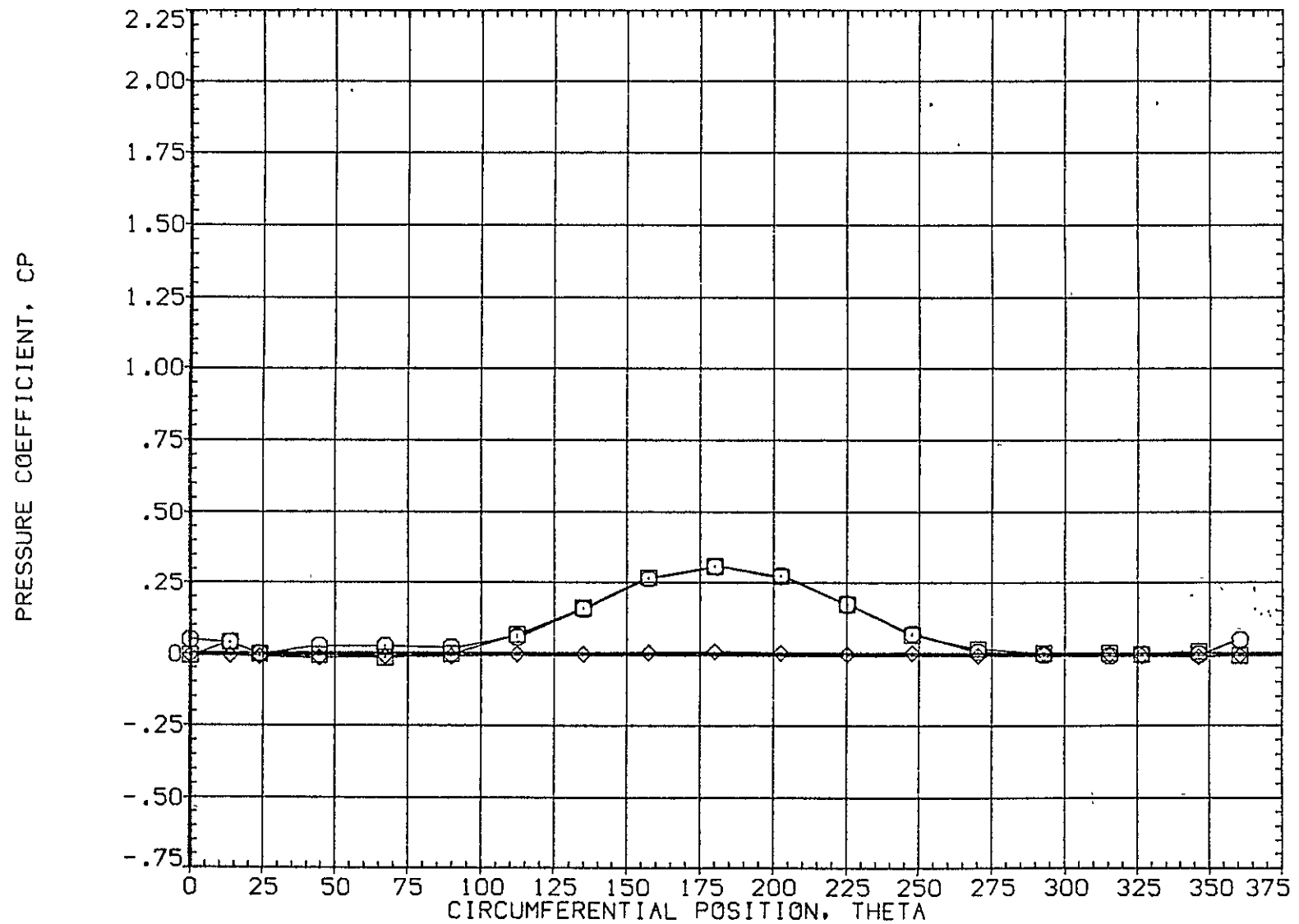


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.055	28.540	4.960	BETA	.000	OFFSET	20.000
□	.108			MOUNT	1.000	PHI	.000
◇	.162						

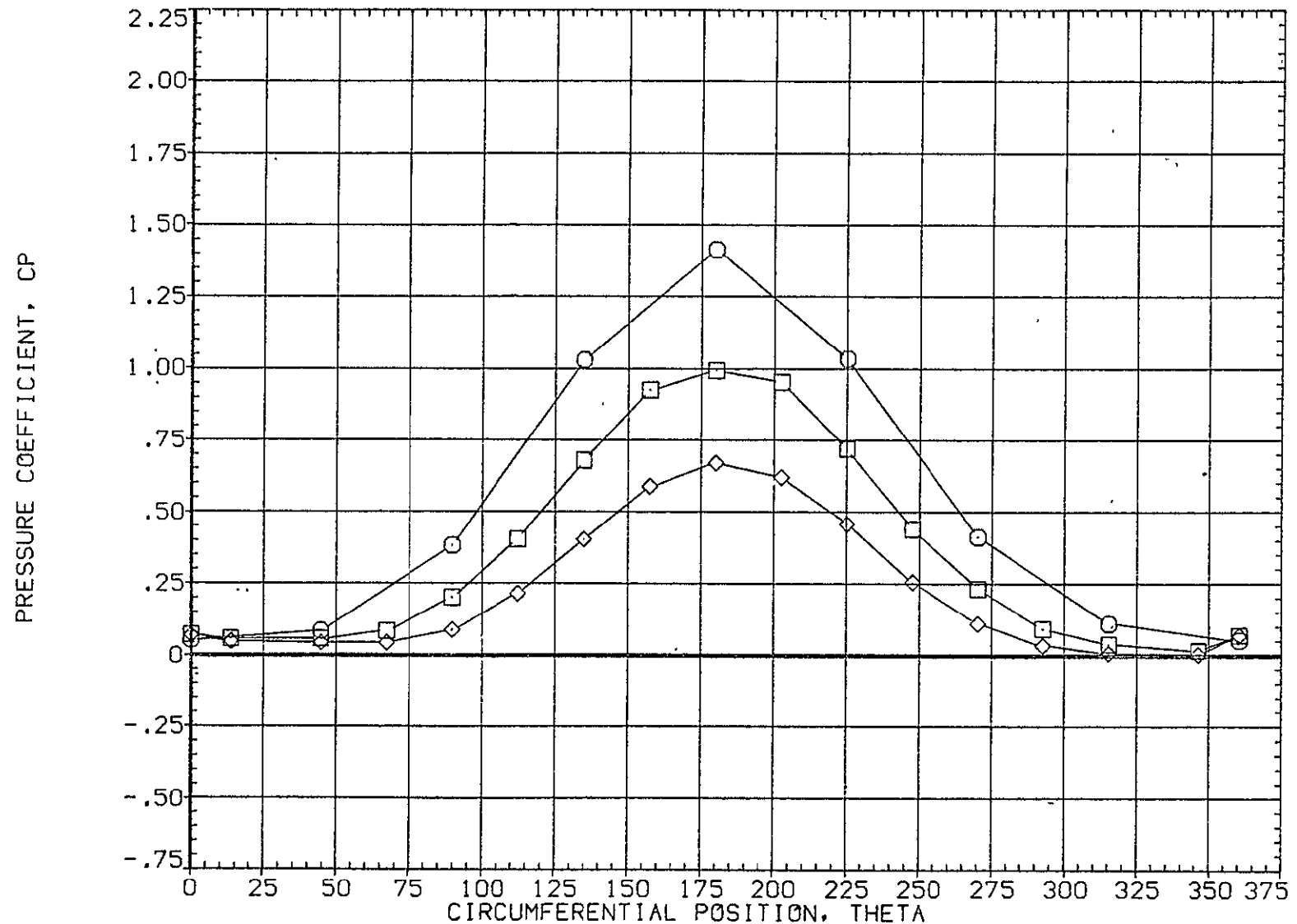


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	28.540	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	OFFSET	20.000
MOUNT	PHI	.000

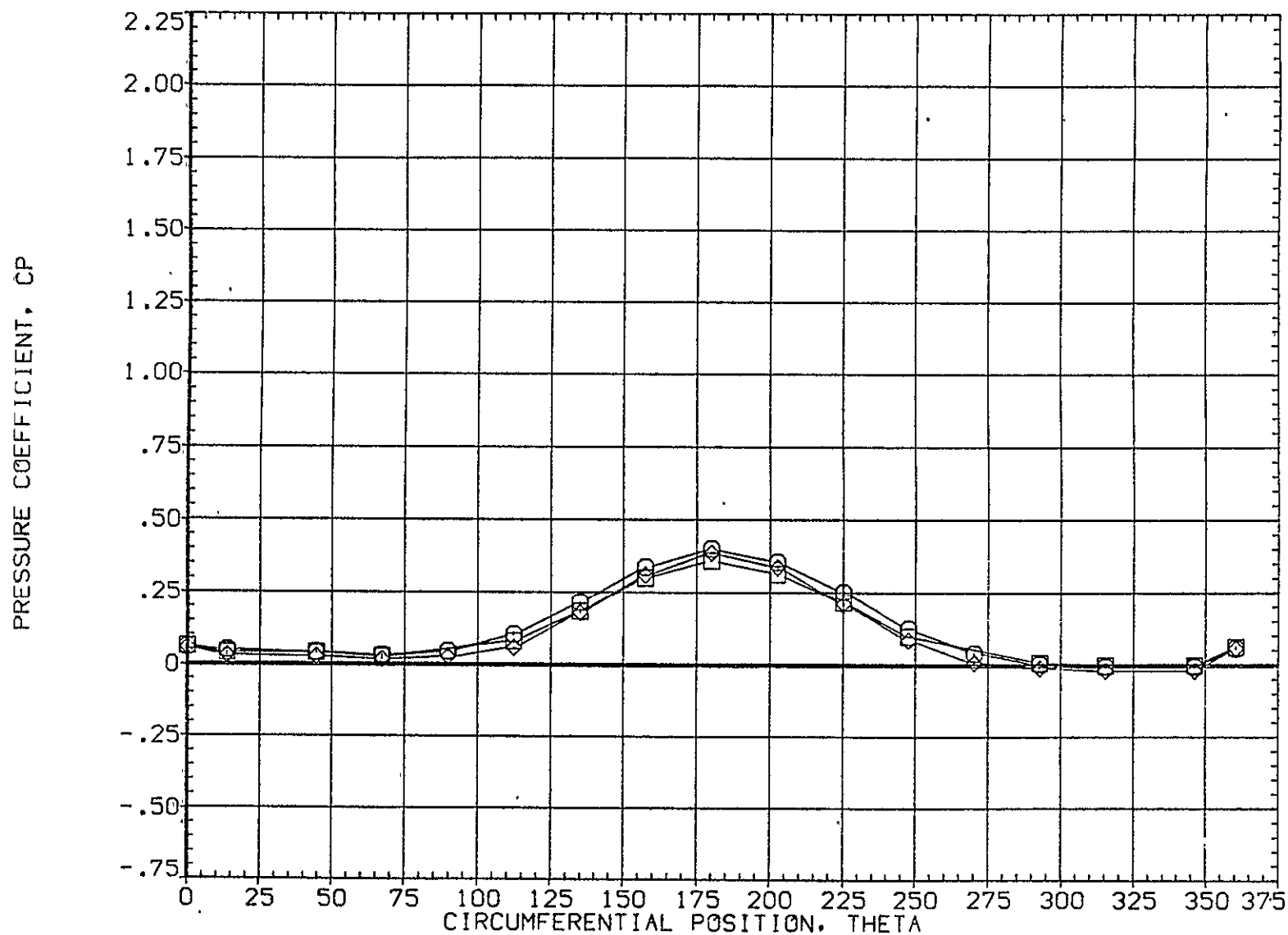


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	28.540	4.960	MOUNT	.000	PHI	.000
□	.735				1.000		
◇	.860						

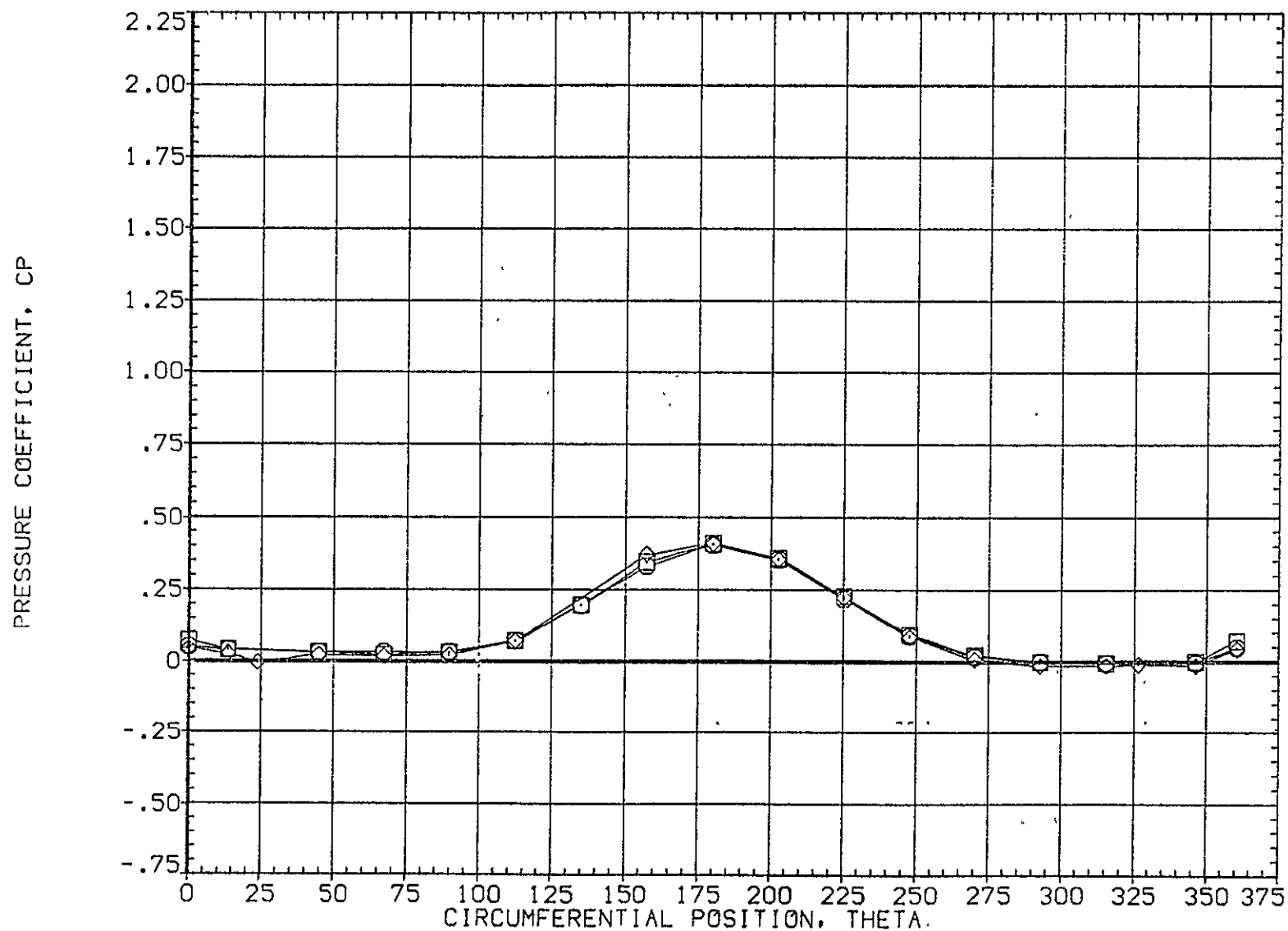


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

BETA
MOUNT

PARAMETRIC VALUES

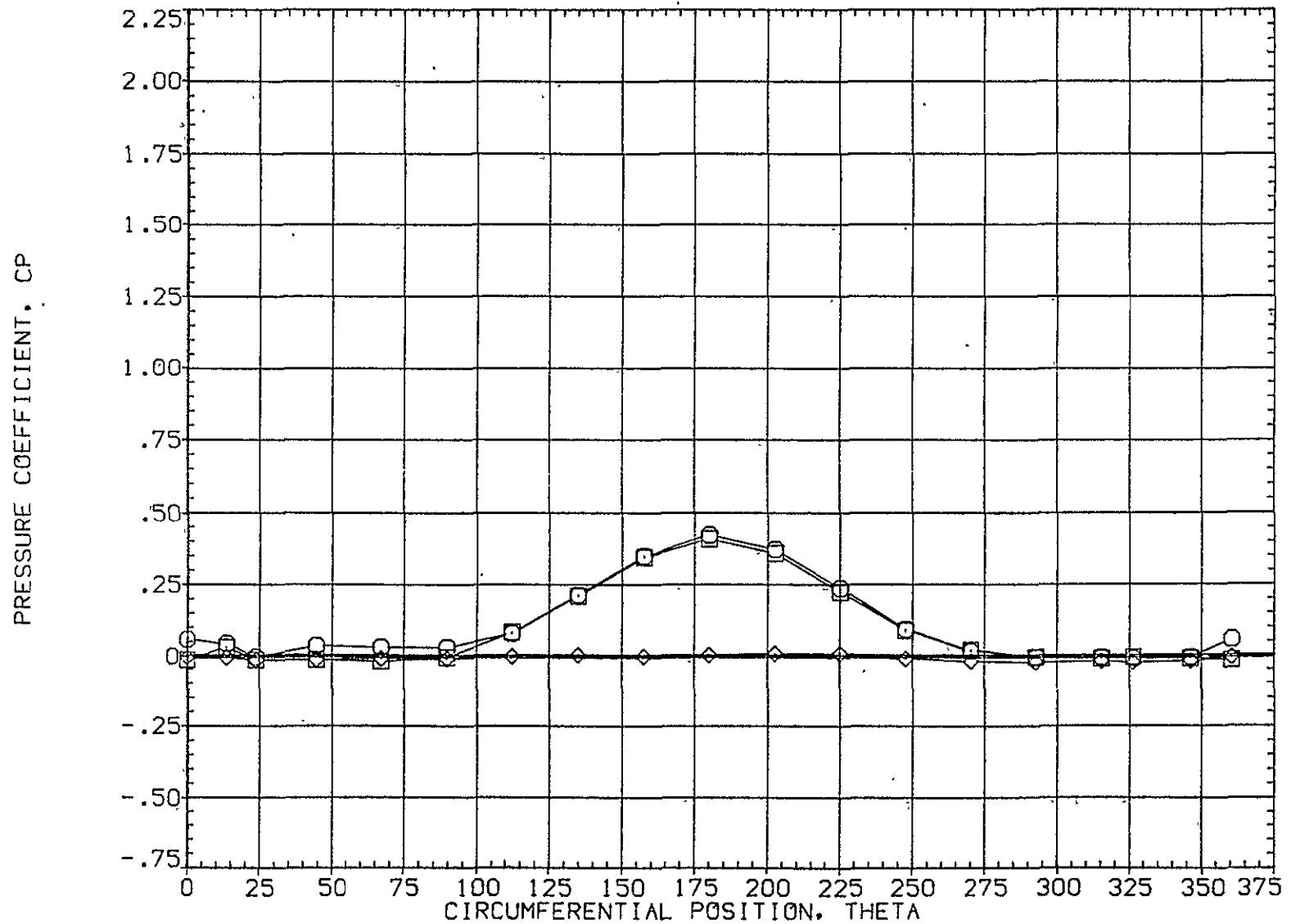
.000
1.000
PHI20.000
.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A081)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-8.330	4.960	.000		.000	
□	.108			1.000	PHI	45.000	
◇	.162						

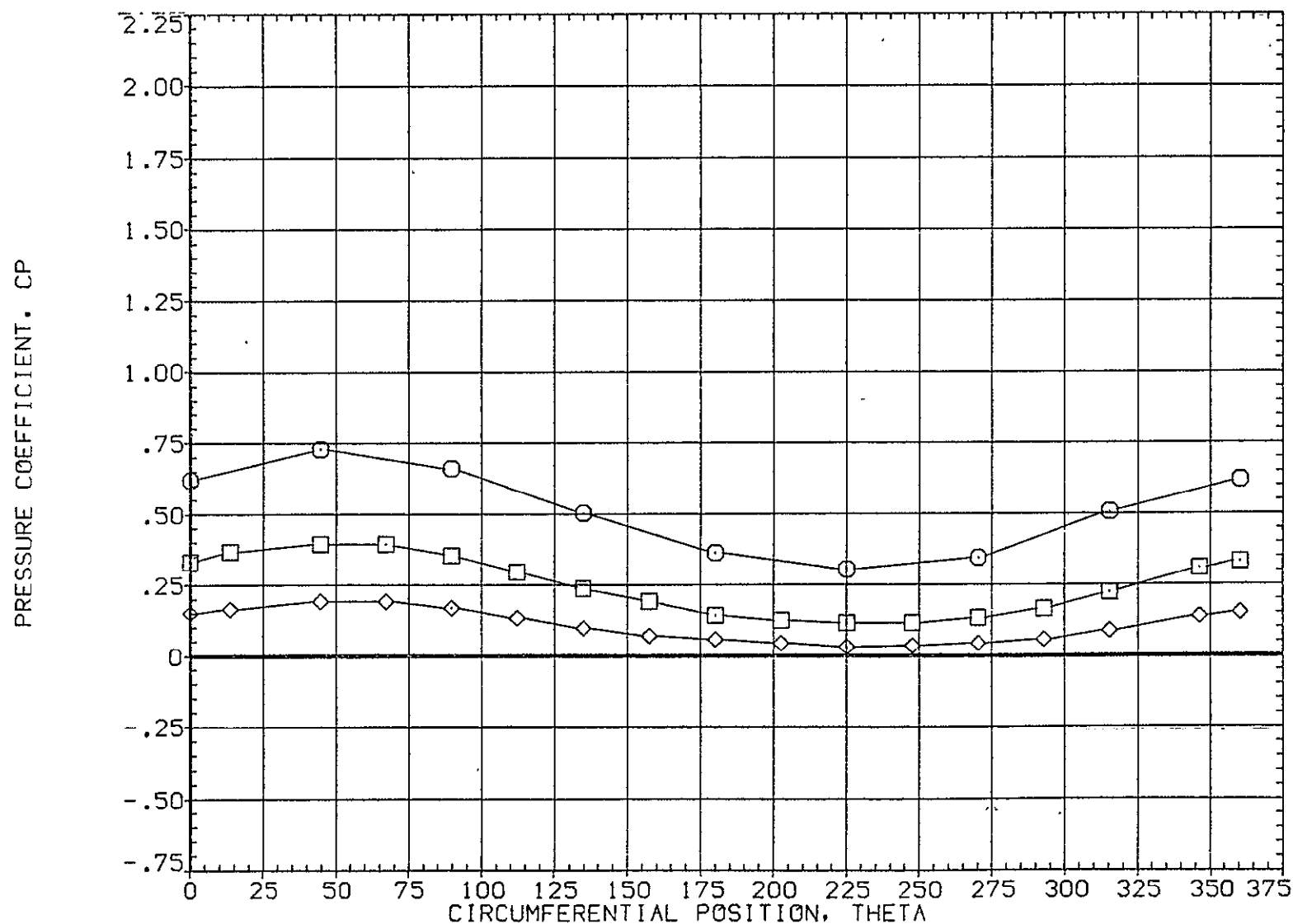


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.216	-8.330	4.960		.000		.000
□	.322			MOUNT	1.000		45.000
◇	.518						

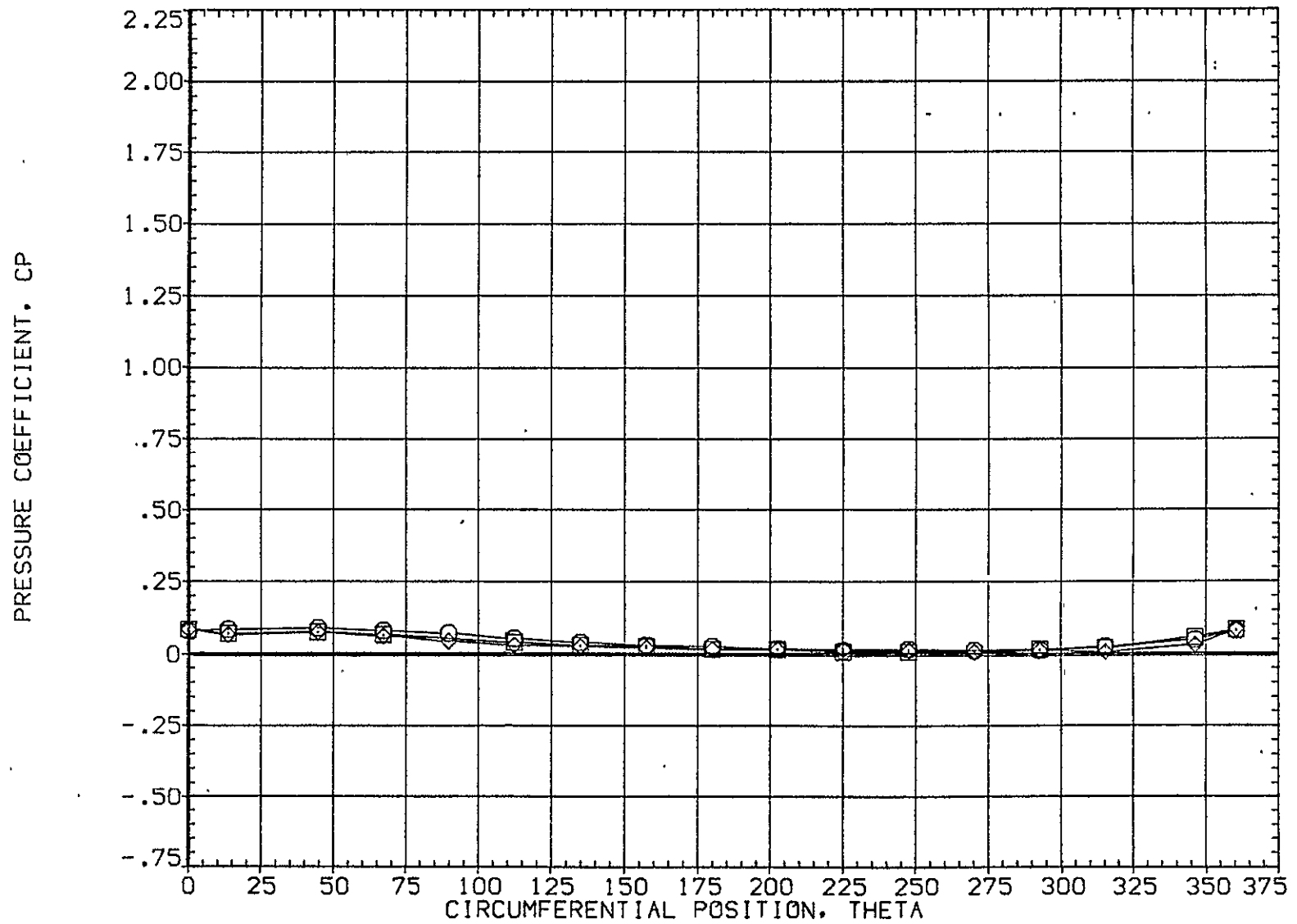


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	-8.330	4.960	.000	.000		.000
□	.735			1.000			45.000
◇	.860						

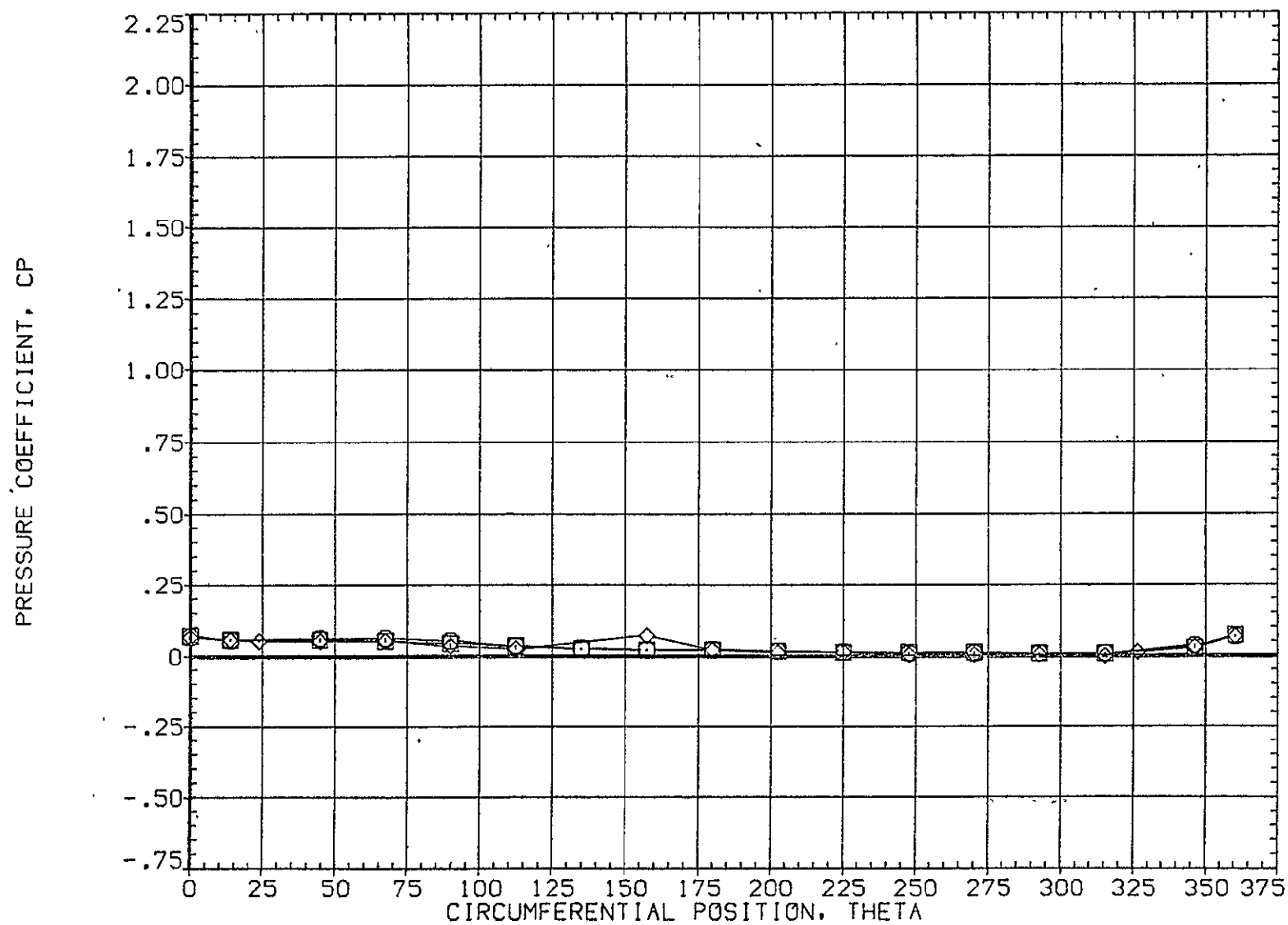


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	-8.330	4.960	.000	.000		.000
□	.923			1.000			45.000
◇	.954						

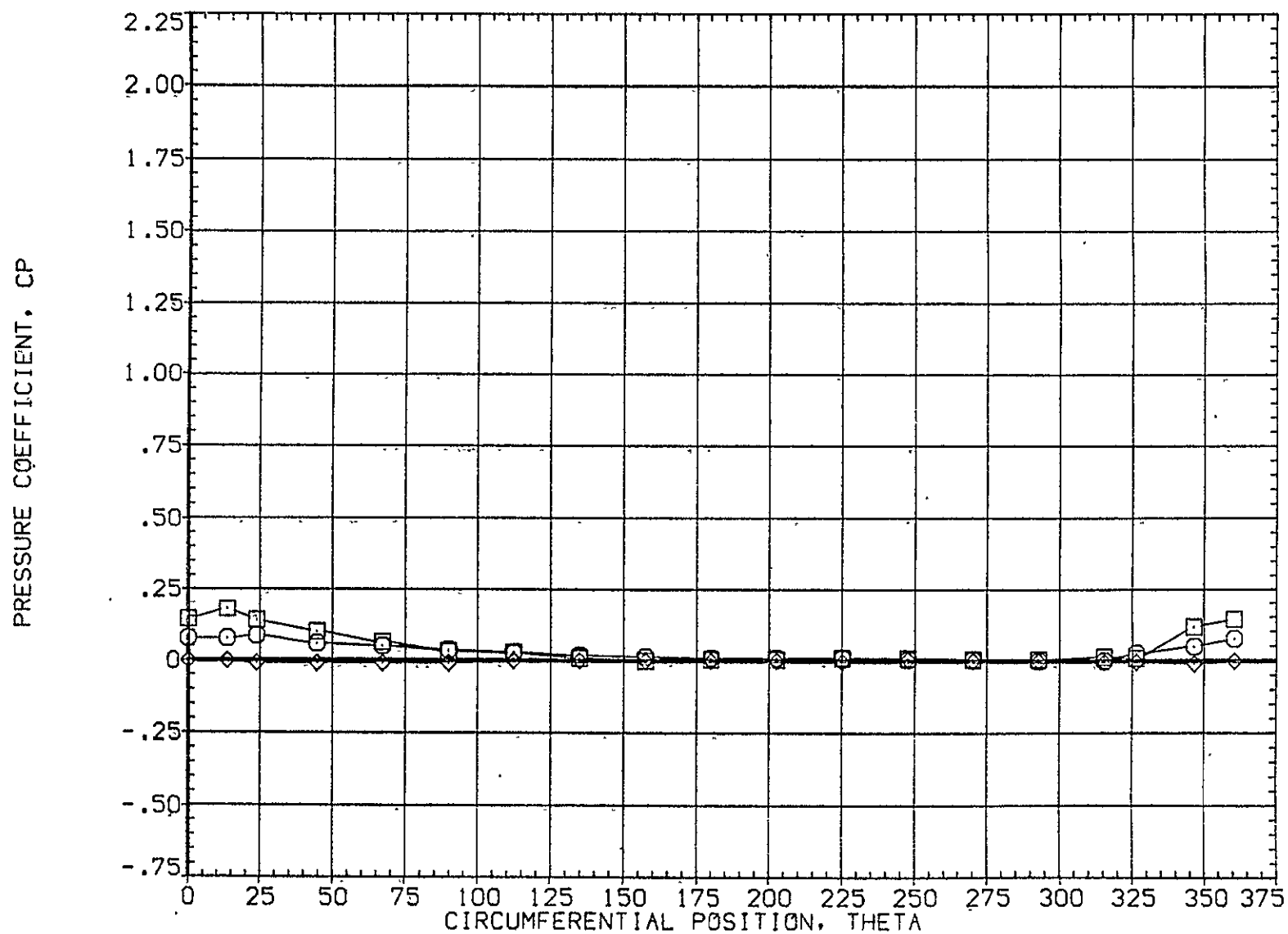


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A082)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	-4.290	4.960	MOUNT	.000	PHI	45.000
□	.108				1.000		
◇	.162						

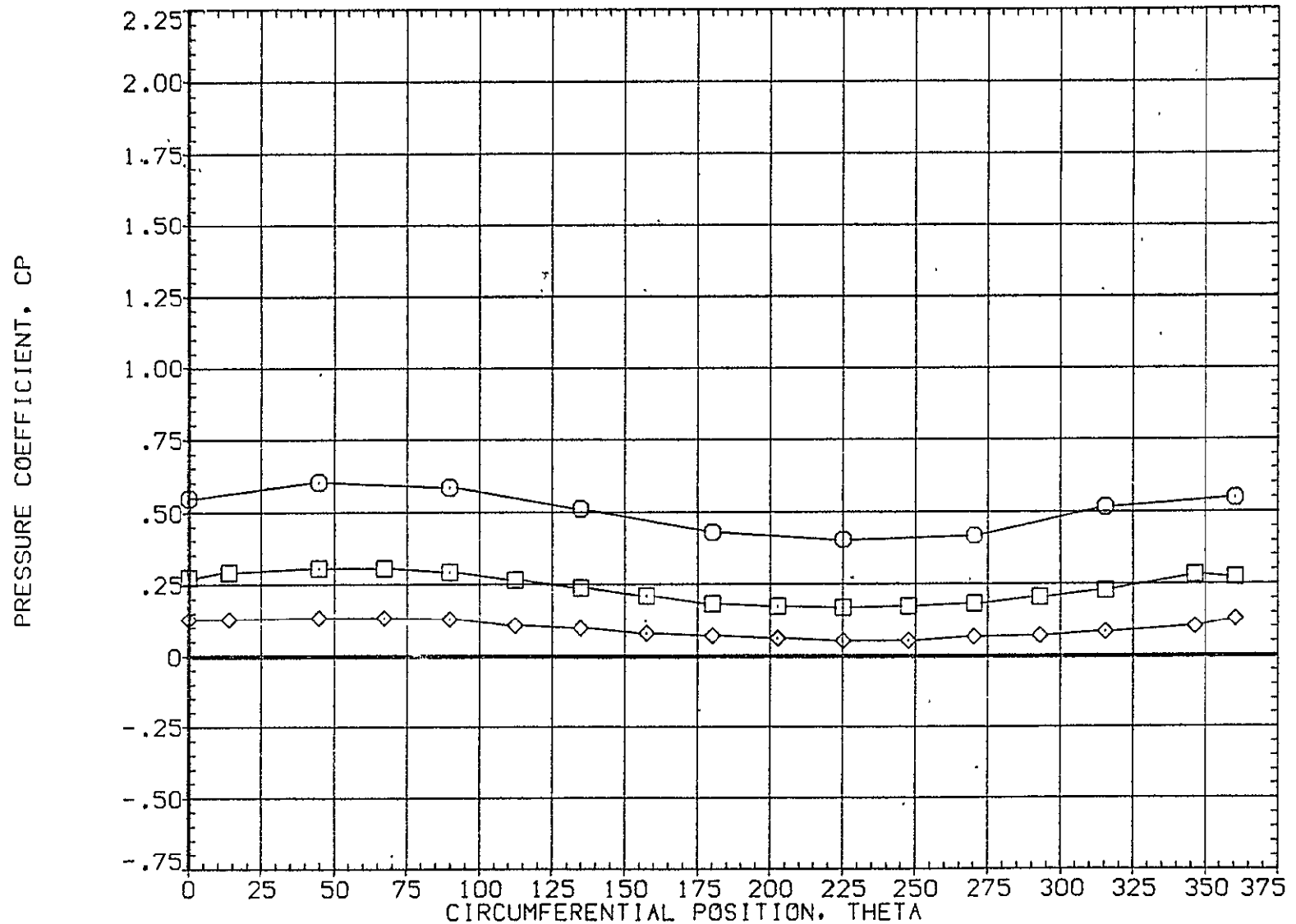


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.216	-4.290	4.960	.000		.000	
□	.322			1.000			45.000
◇	.518						

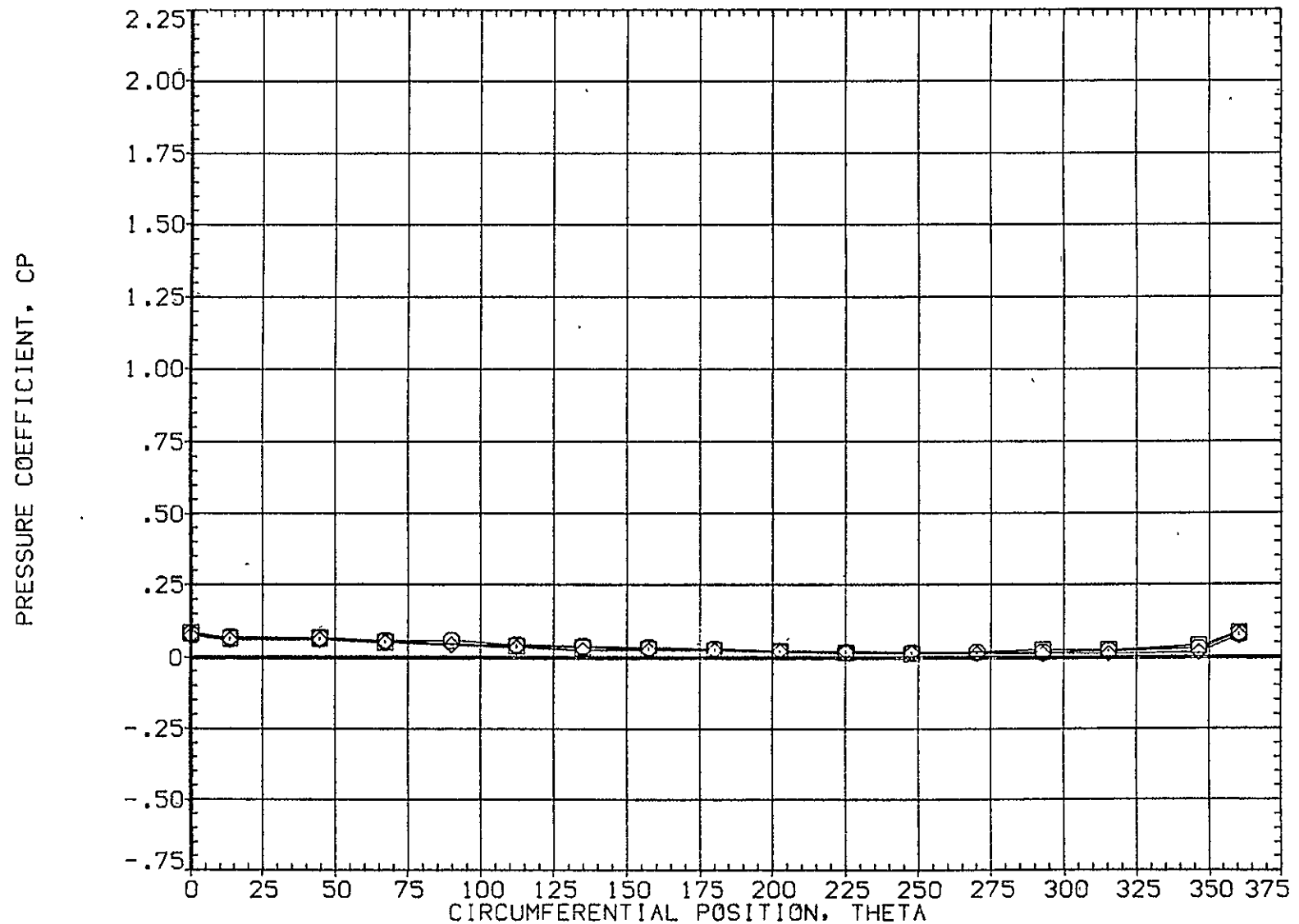


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A082)

SYMBOL	X/LB	ALPHA	MACH		BETA	PARAMETRIC VALUES	
○	.610	-4.290	4.960		.000	OFFSET	.000
□	.735				1.000	PHI	45.000
◇	.860						

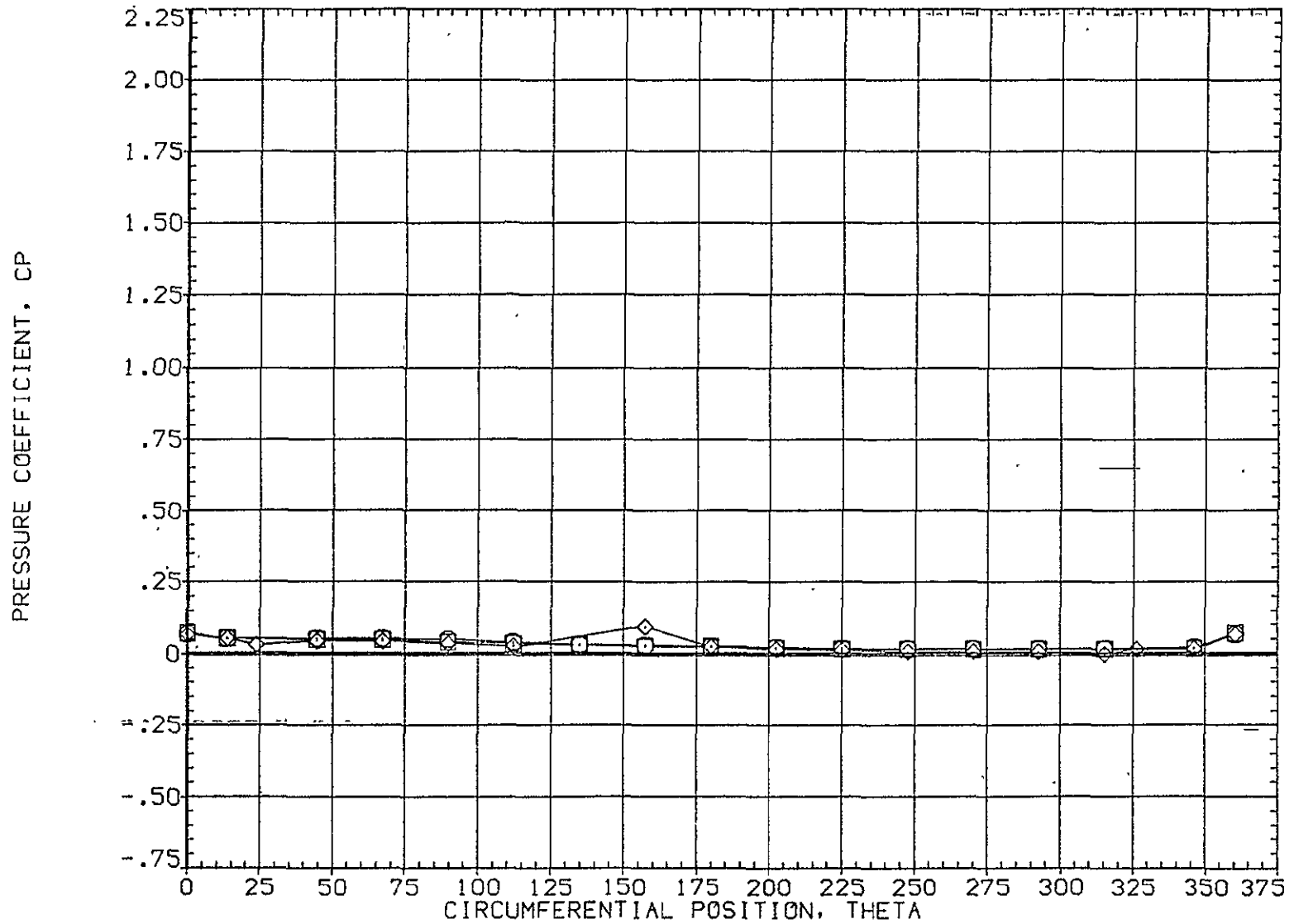


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

6.7

SYMBOL
○
□
◇

X/LB
.892
.923
.954

ALPHA
-4.290

MACH
4.960

PARAMETRIC VALUES

BETA .000
MOUNT 1.000

OFFSET .000
PHI 45.000

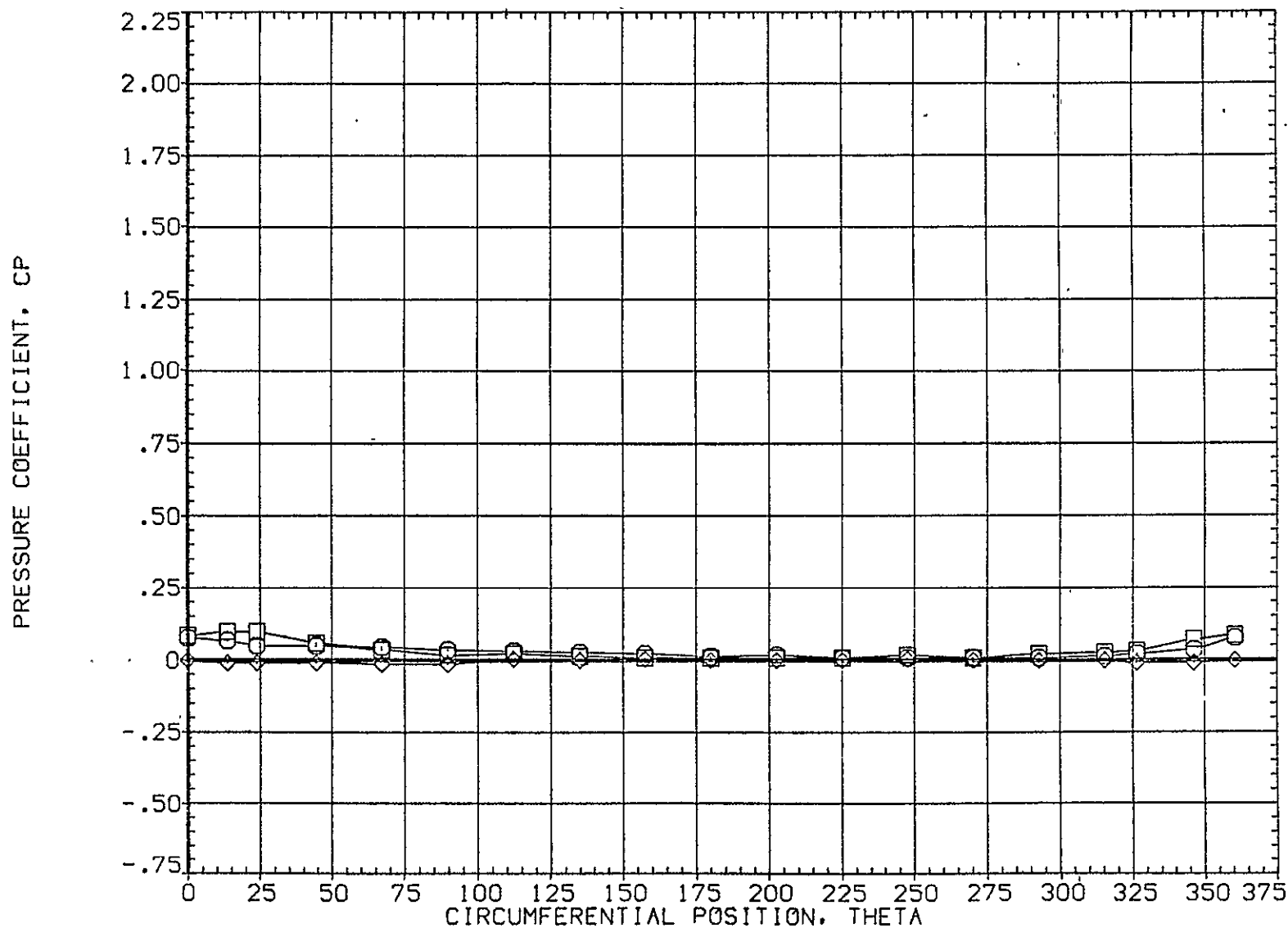


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.055	-.280	4.960	.000	.000	.000
□	.108			1.000		45.000
◇	.162					

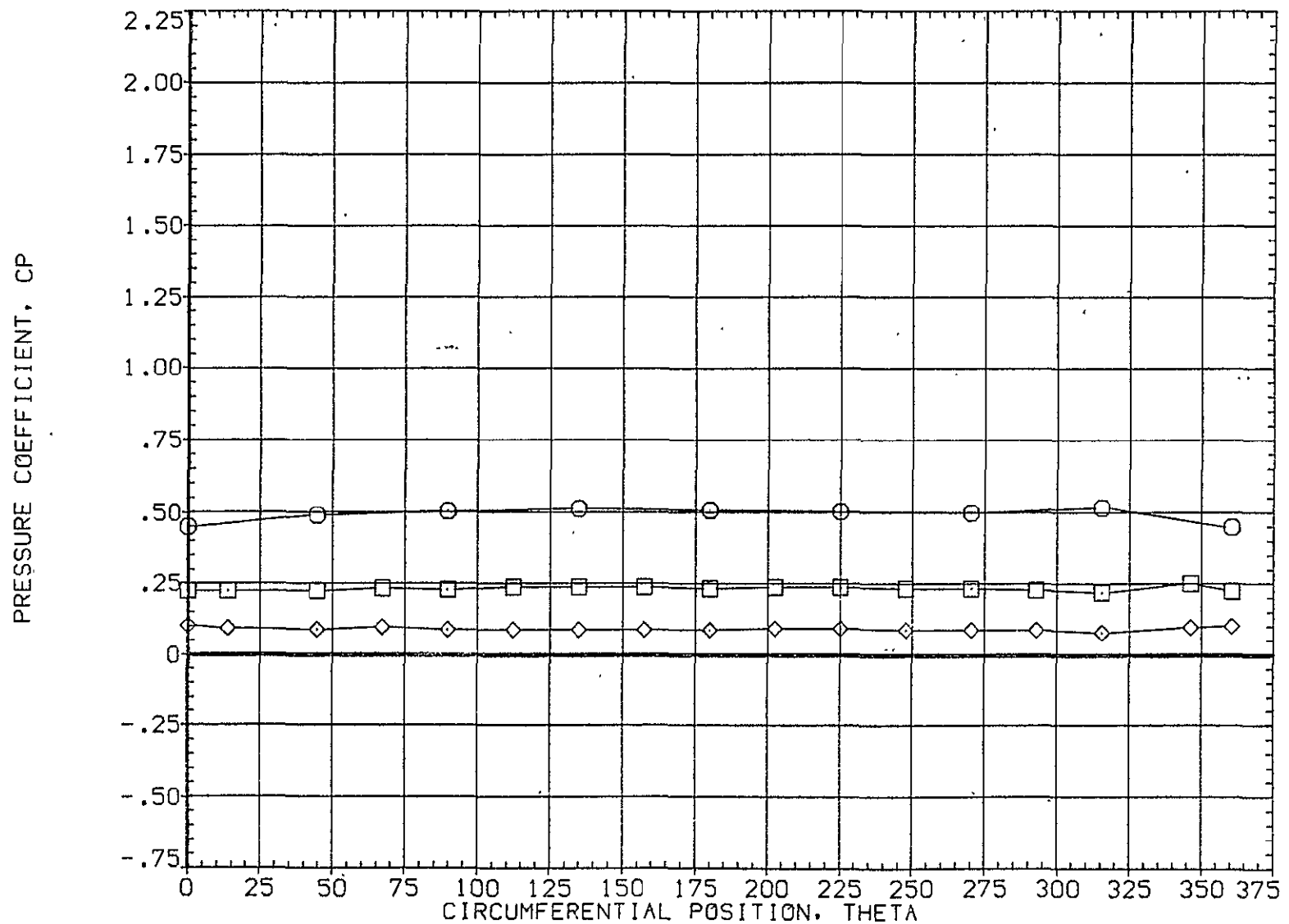


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.216	-.280	4.960		.000		.000
□	.322			MOUNT	1.000		45.000
◇	.518						

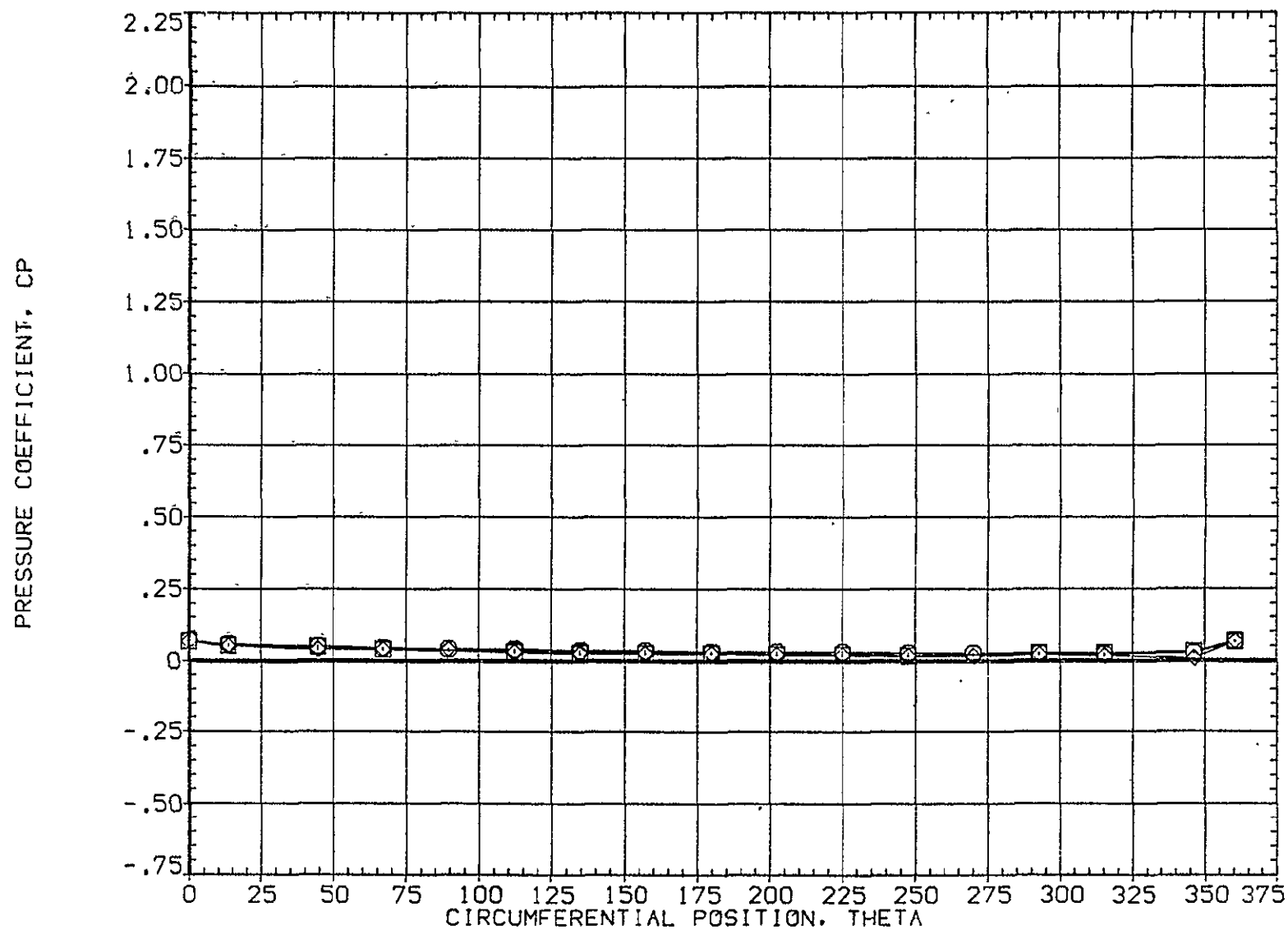


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A083)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.610	-.280	4.960	.000	.000	.000
□	.735			1.000		45.000
◇	.860					

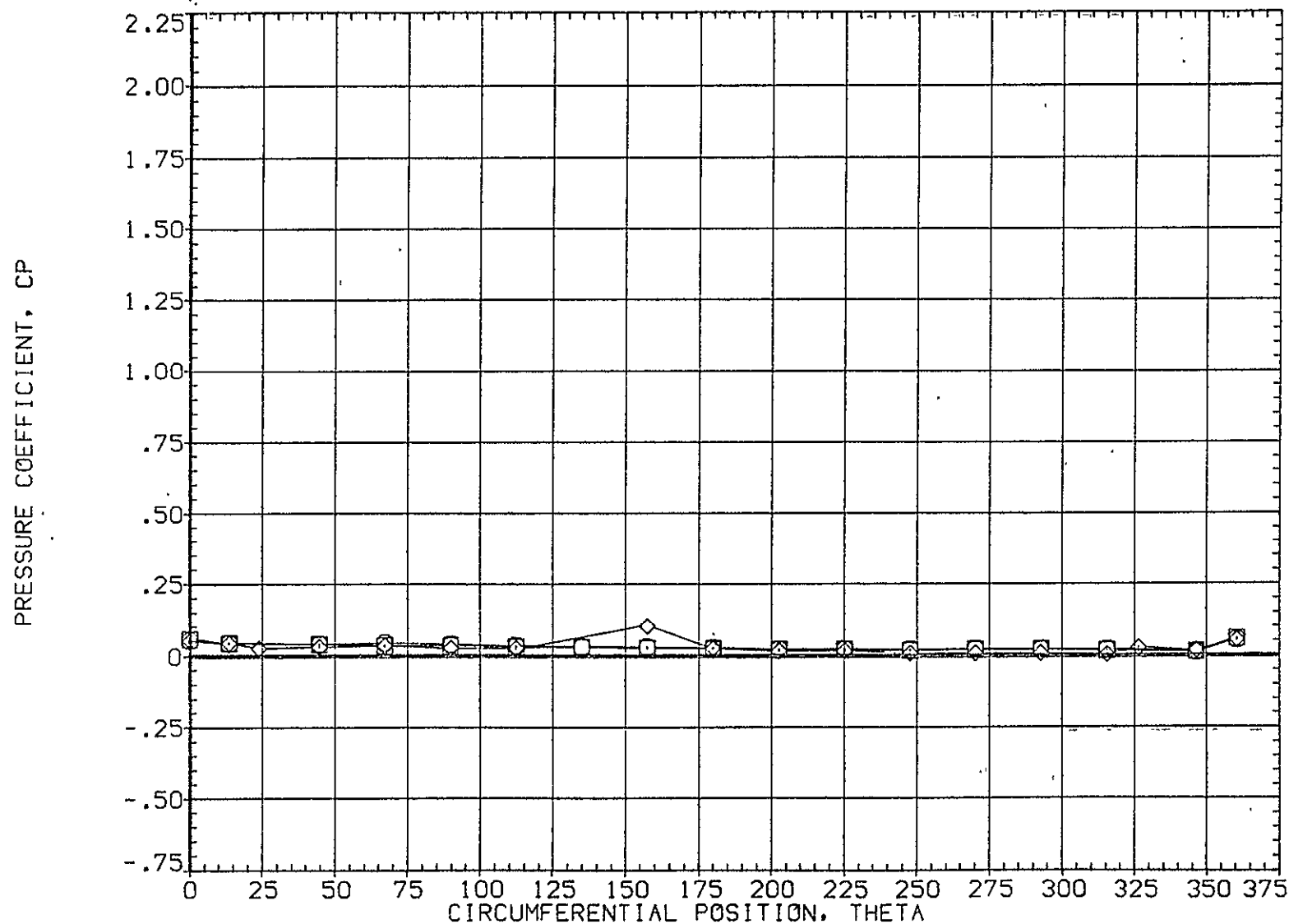


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	-.280	4.960	.000	.000		.000
□	.923			1.000			45.000
◇	.954						

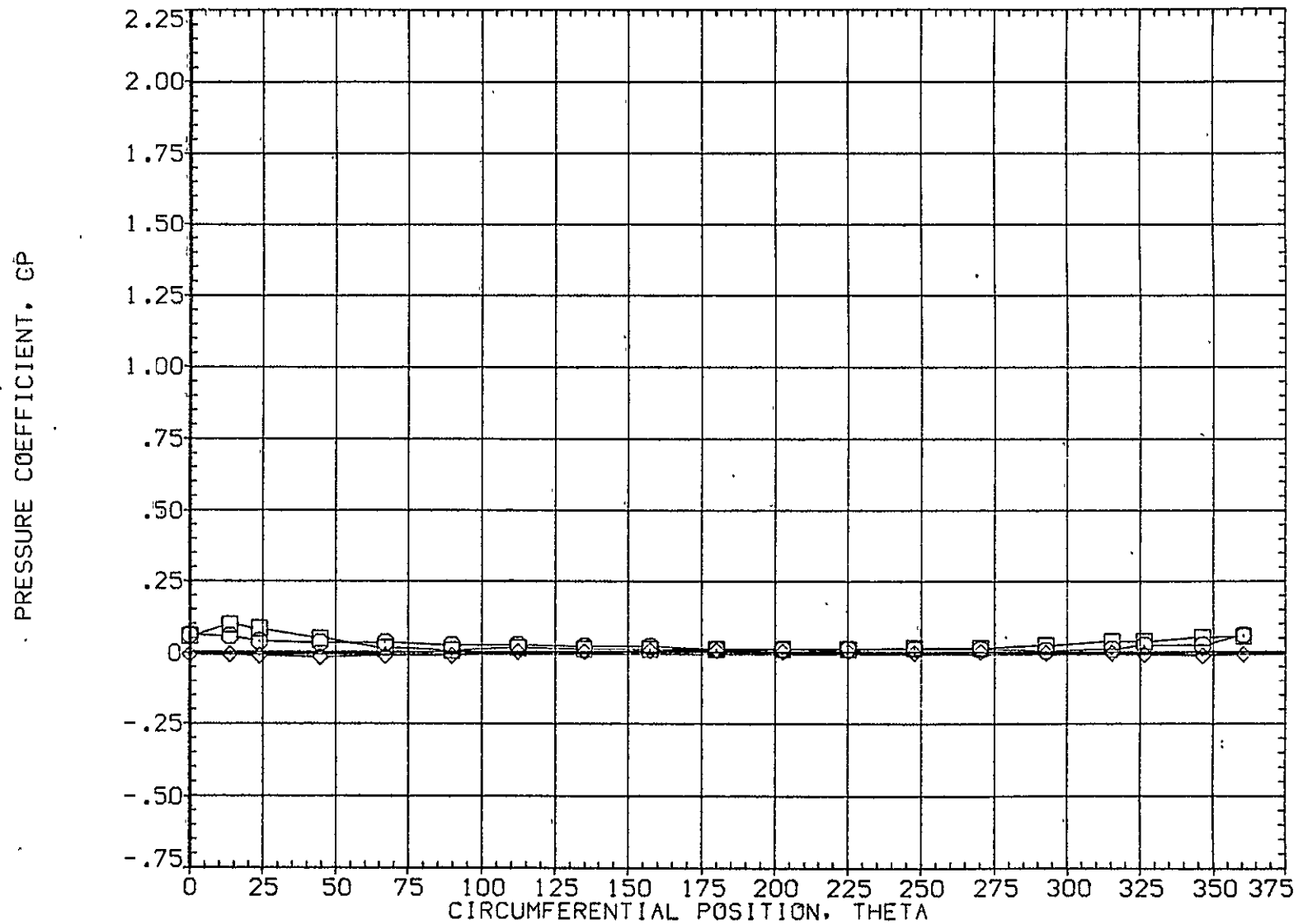


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A084)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	3.730	4.960	MOUNT	.000	.000
□	.108				1.000	PHI 45.000
◇	.162					

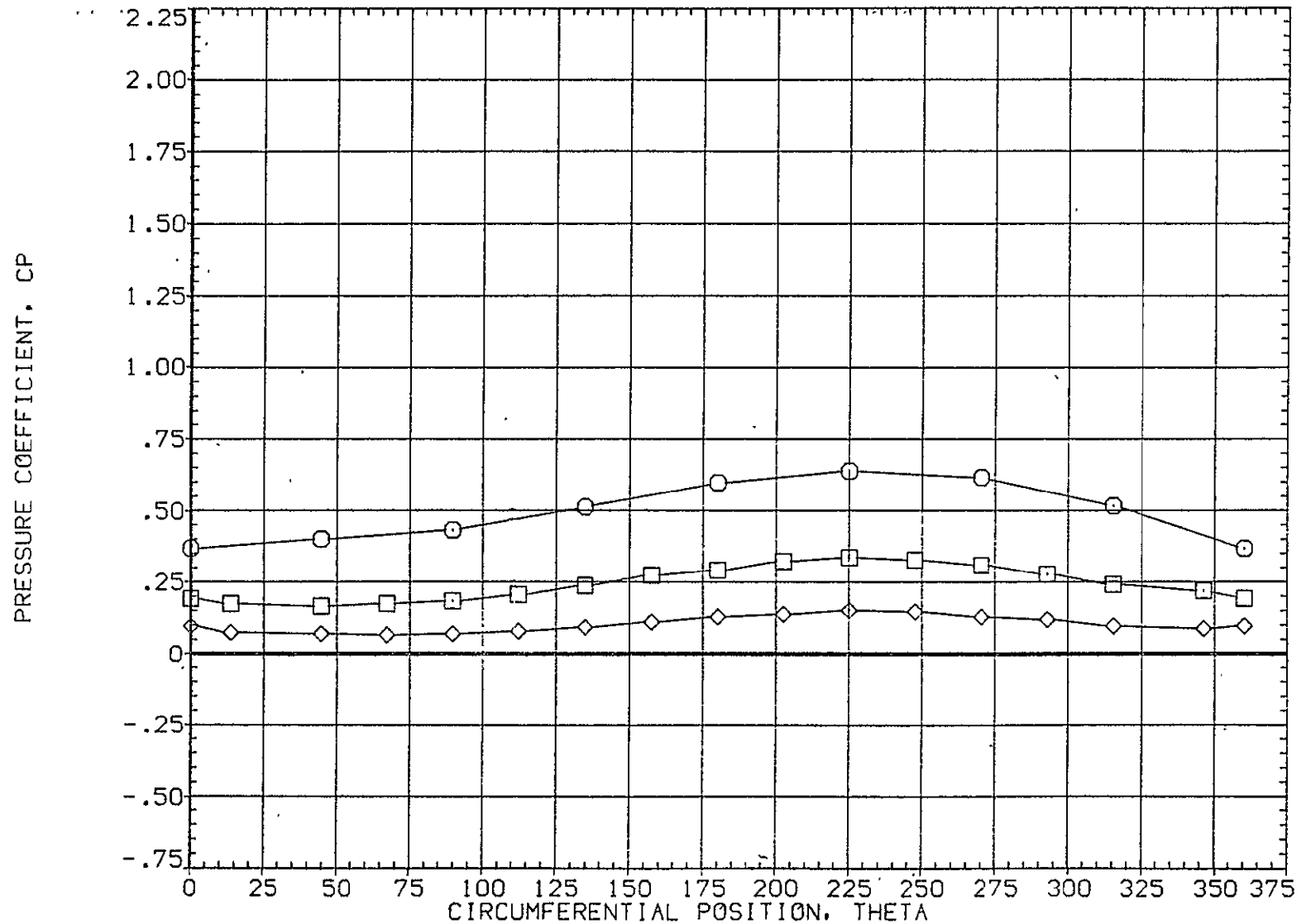


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	.000
				MOUNT	1.000	PHI	45.000

○	.216	3.730	4.960				
□	.322						
◇	.518						

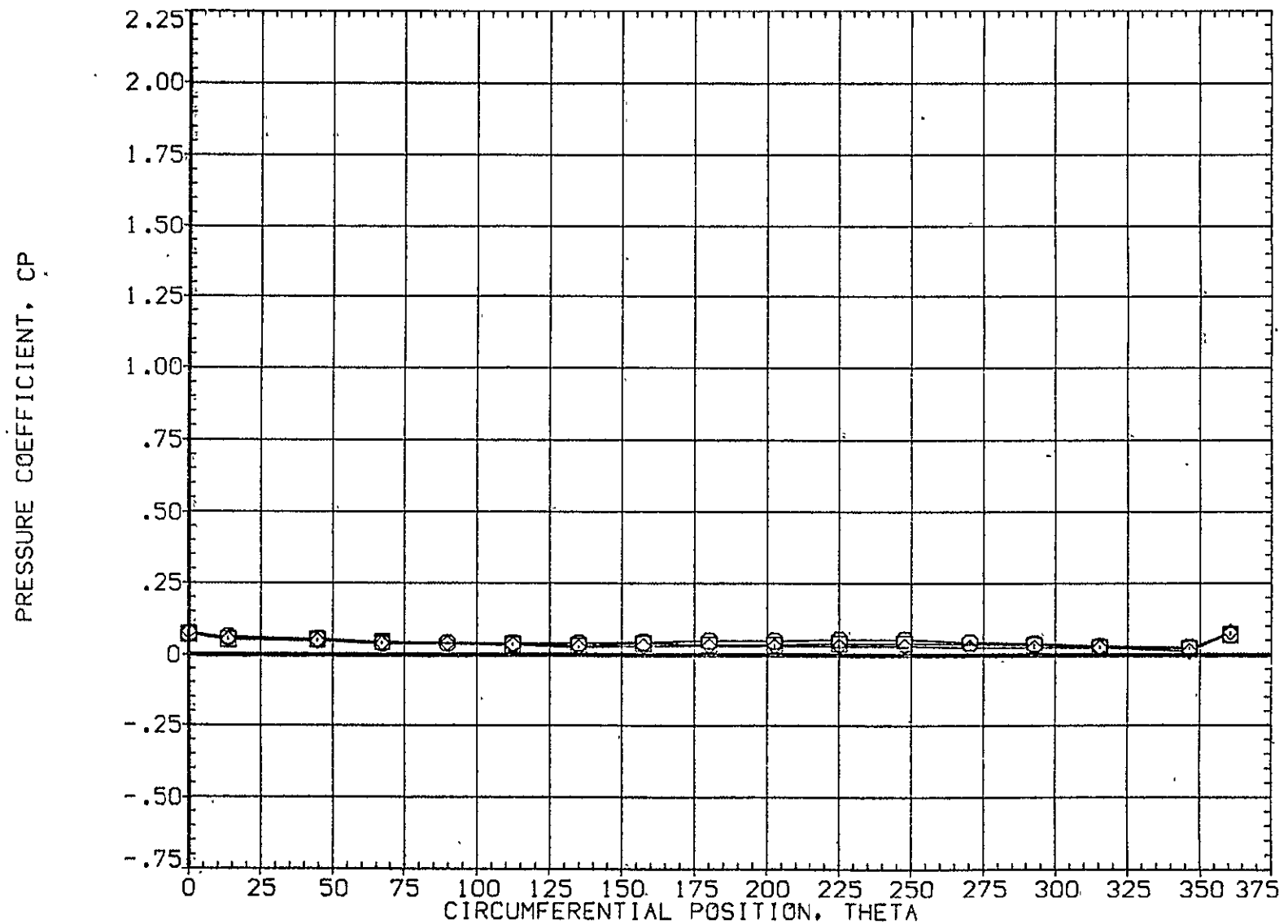


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A084)

SYMBOL
○
□
◇

X/LB
.610
.735
.860

ALPHA
3.730

MACH
4.960

BETA
MOUNT

PARAMETRIC VALUES
.000 OFFSET
1.000 PHI

.000
45.000

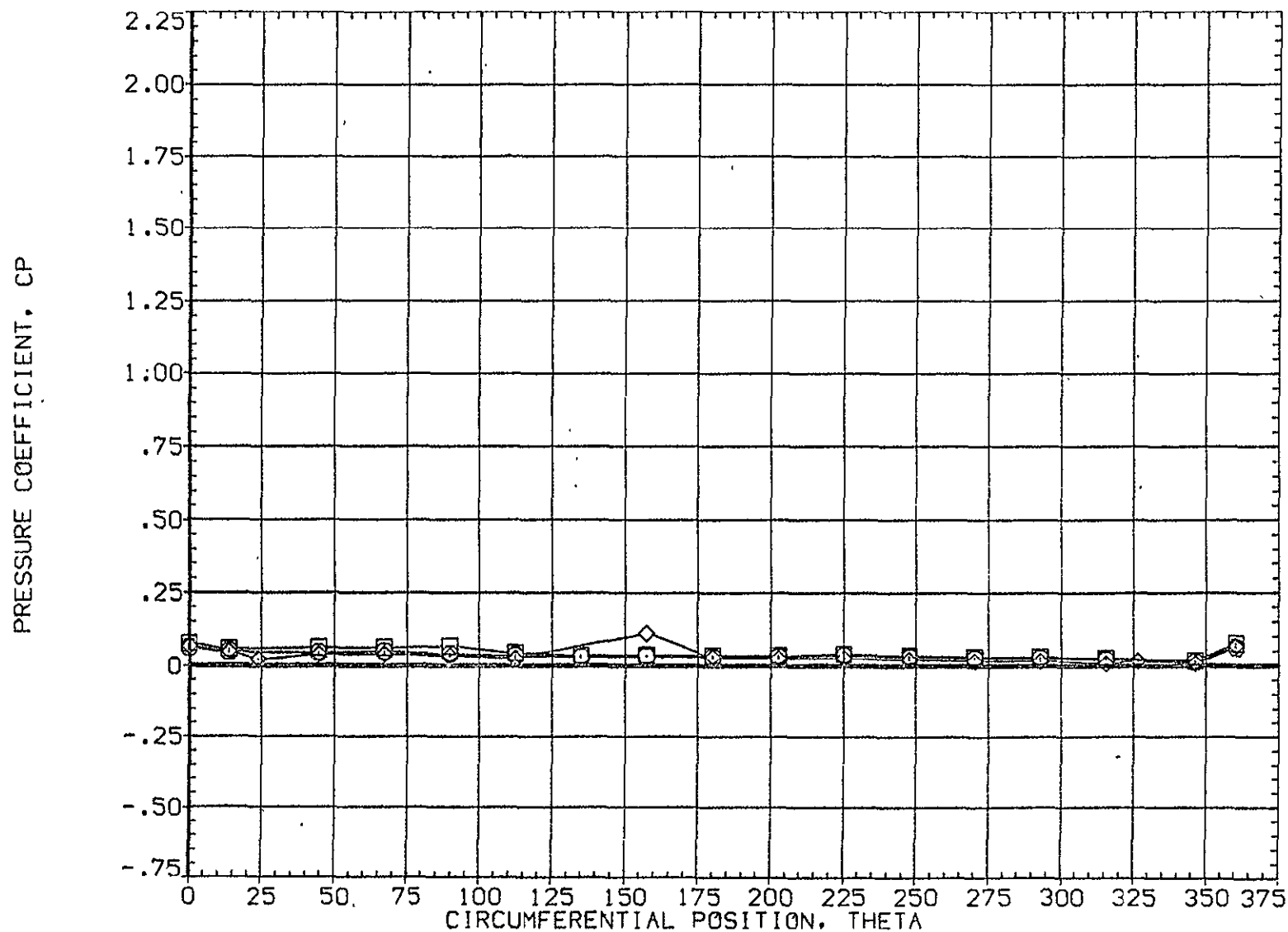


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	3.730	4.960		.000		.000
□	.923			MOUNT	1.000		45.000
◇	.954						

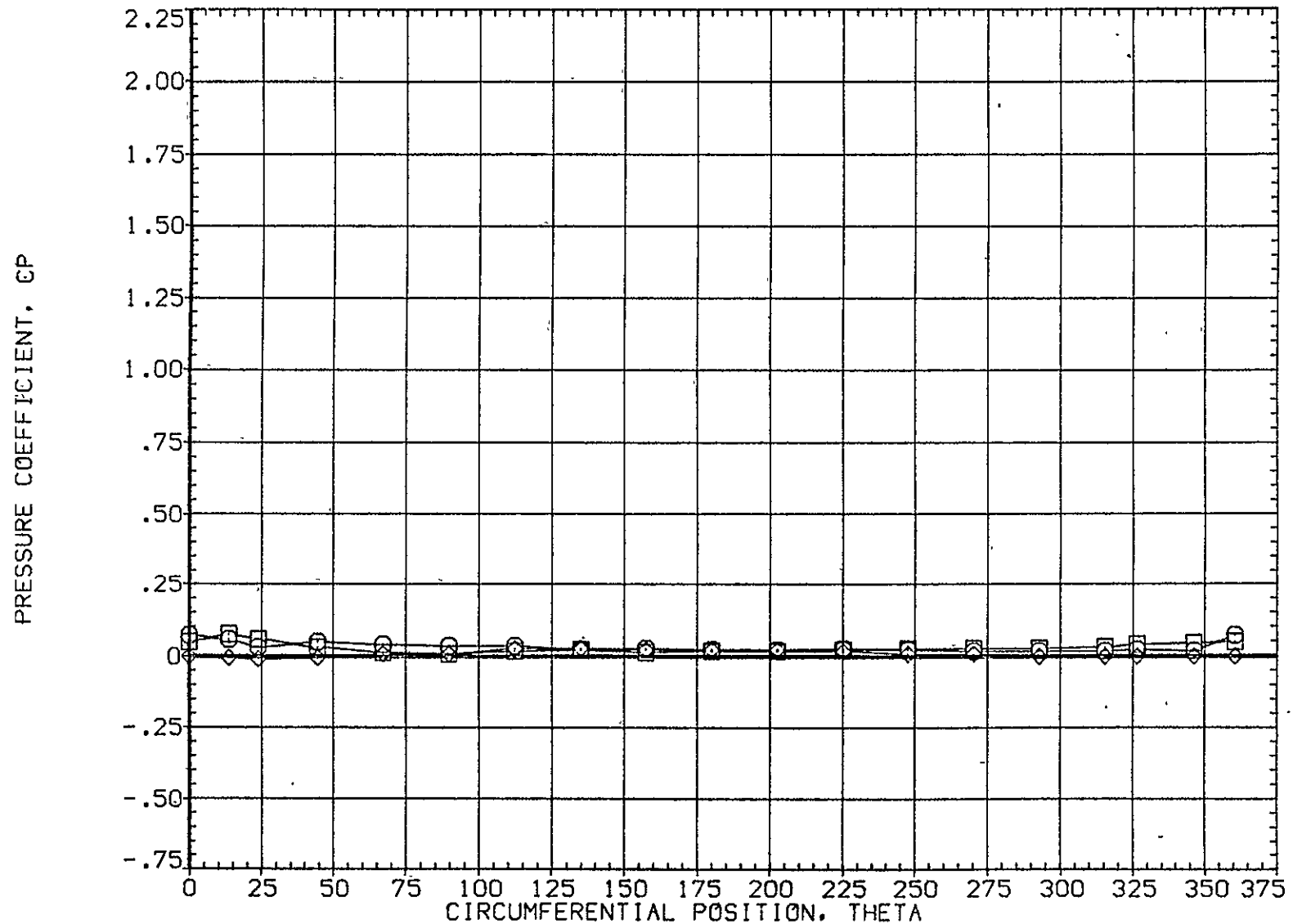


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	.000
○	.055	7.750	4.960	MOUNT	1.000	PHI 45.000
□	.108					
◇	.162					

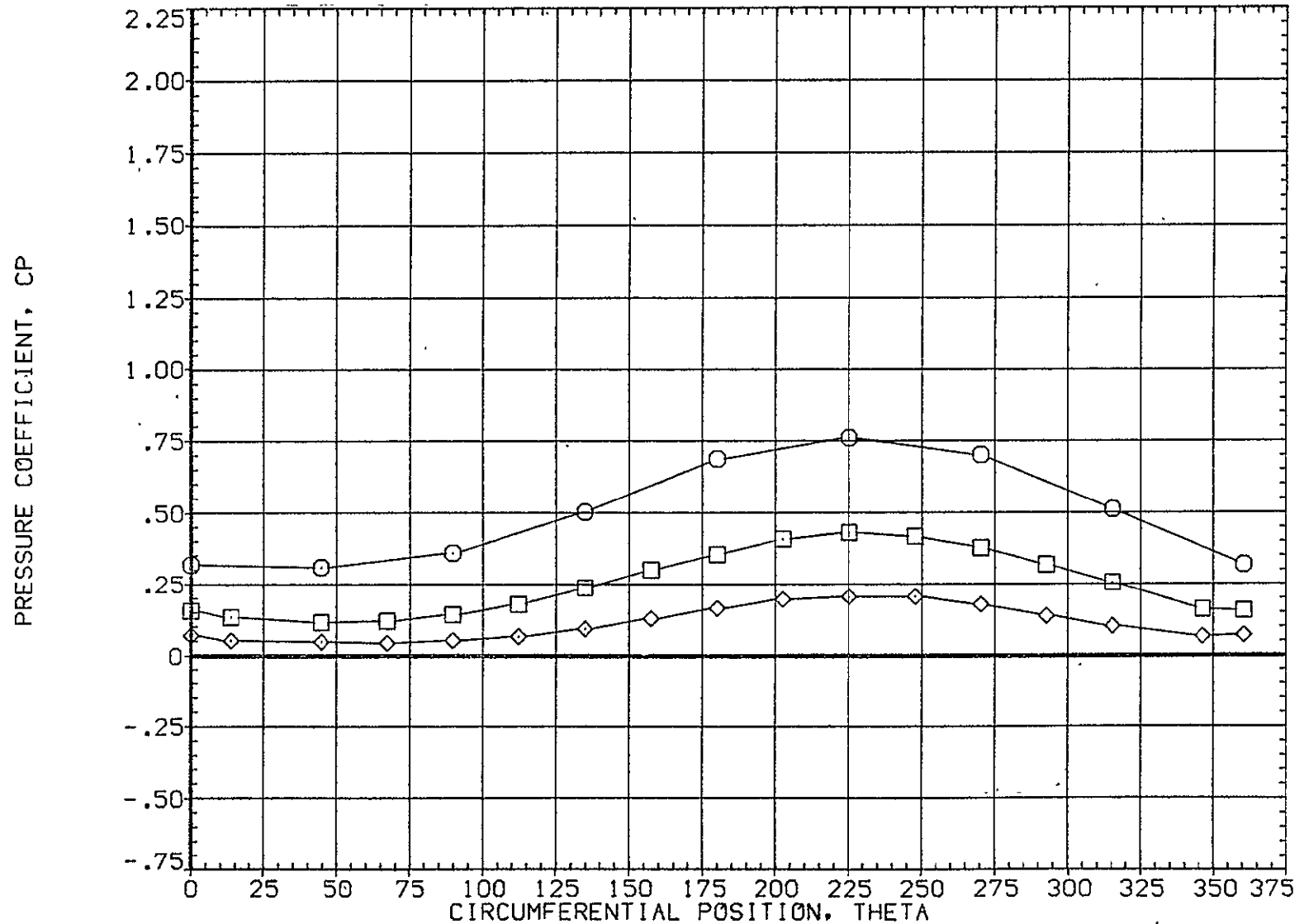


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.216	7.750	4.960	MOUNT	1.000	PHI	45.000
□	.322						
◇	.518						

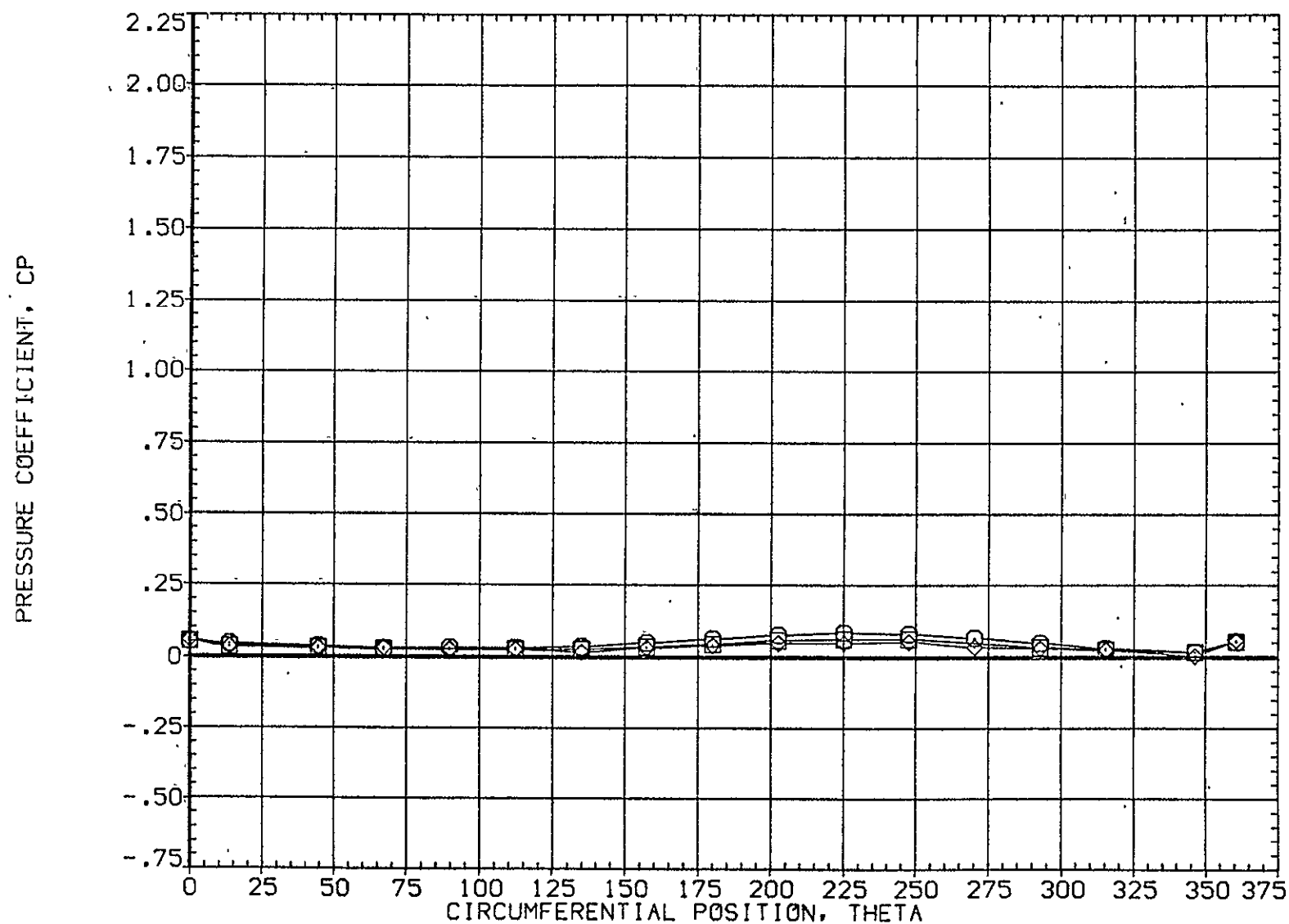


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.610	7.750	4.960	.000	.000	.000
□	.735			1.000		45.000
◇	.860					

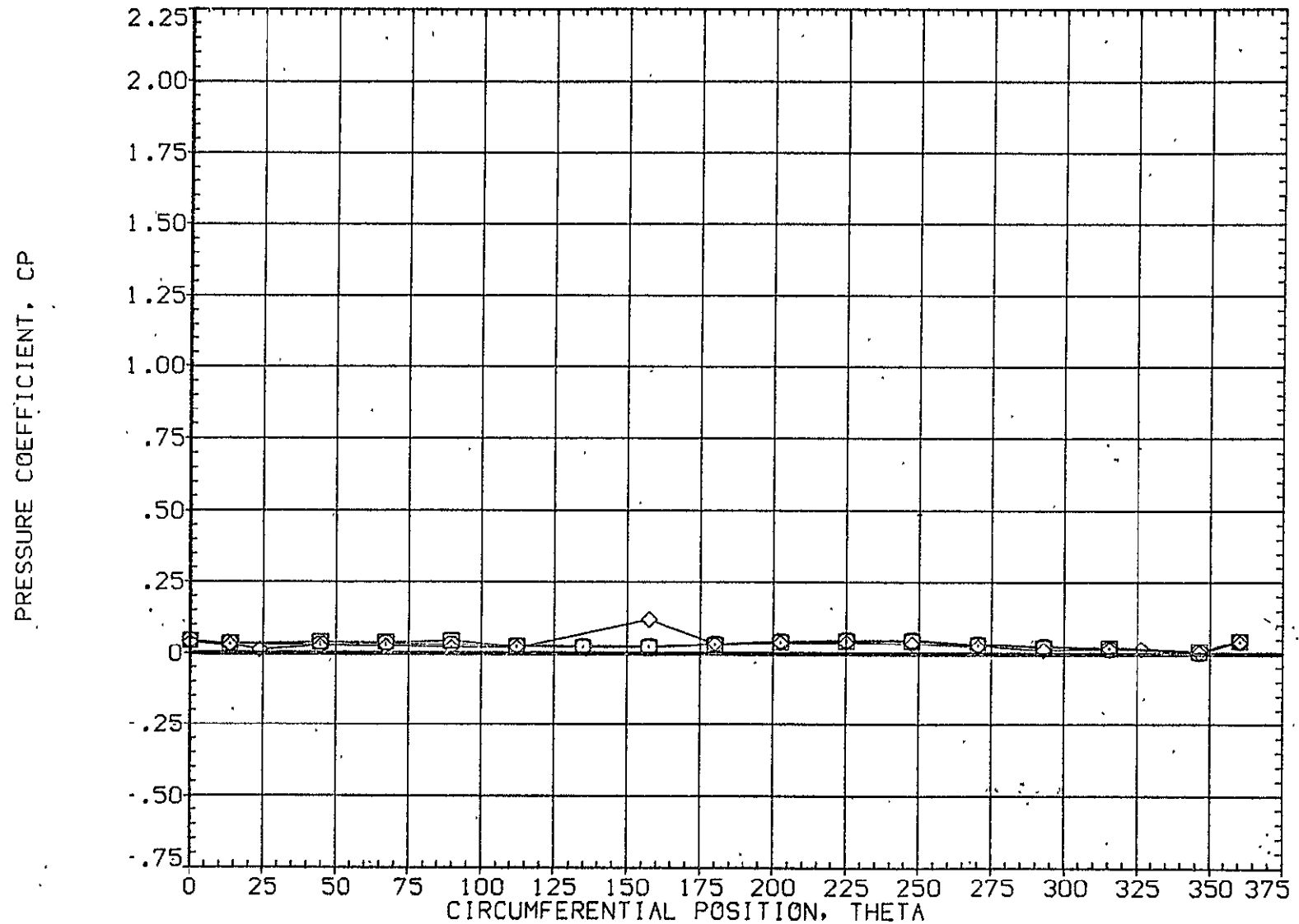


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	7.750	4.960		.000	.000
□	.923			MOUNT	1.000	PHI
◇	.954					45.000

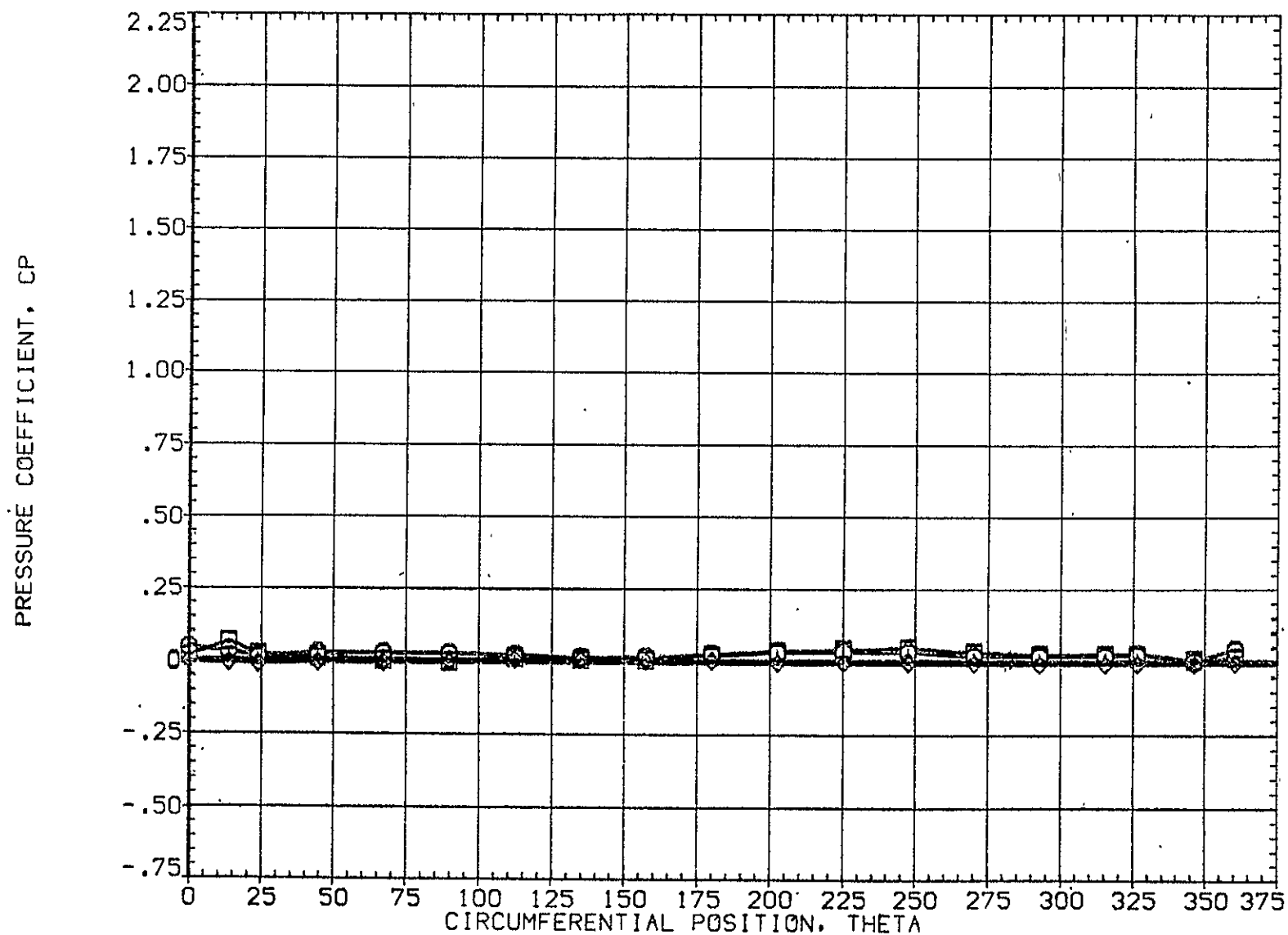


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.055	12.450	4.960	BETA	.000	OFFSET	20.000
□	.108			MOUNT	1.000	PHI	45.000
◇	.162						

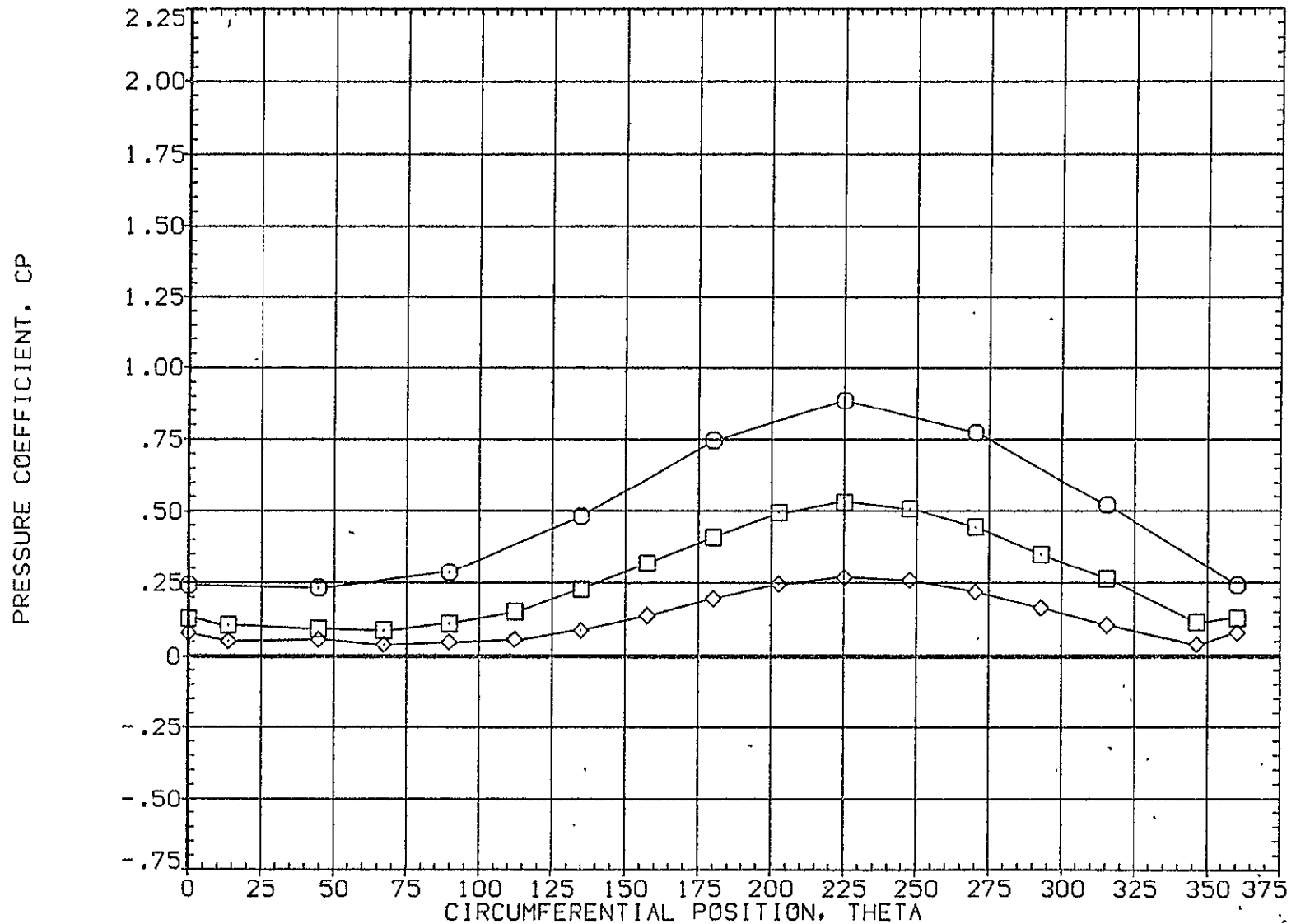


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	12.450	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	45.000

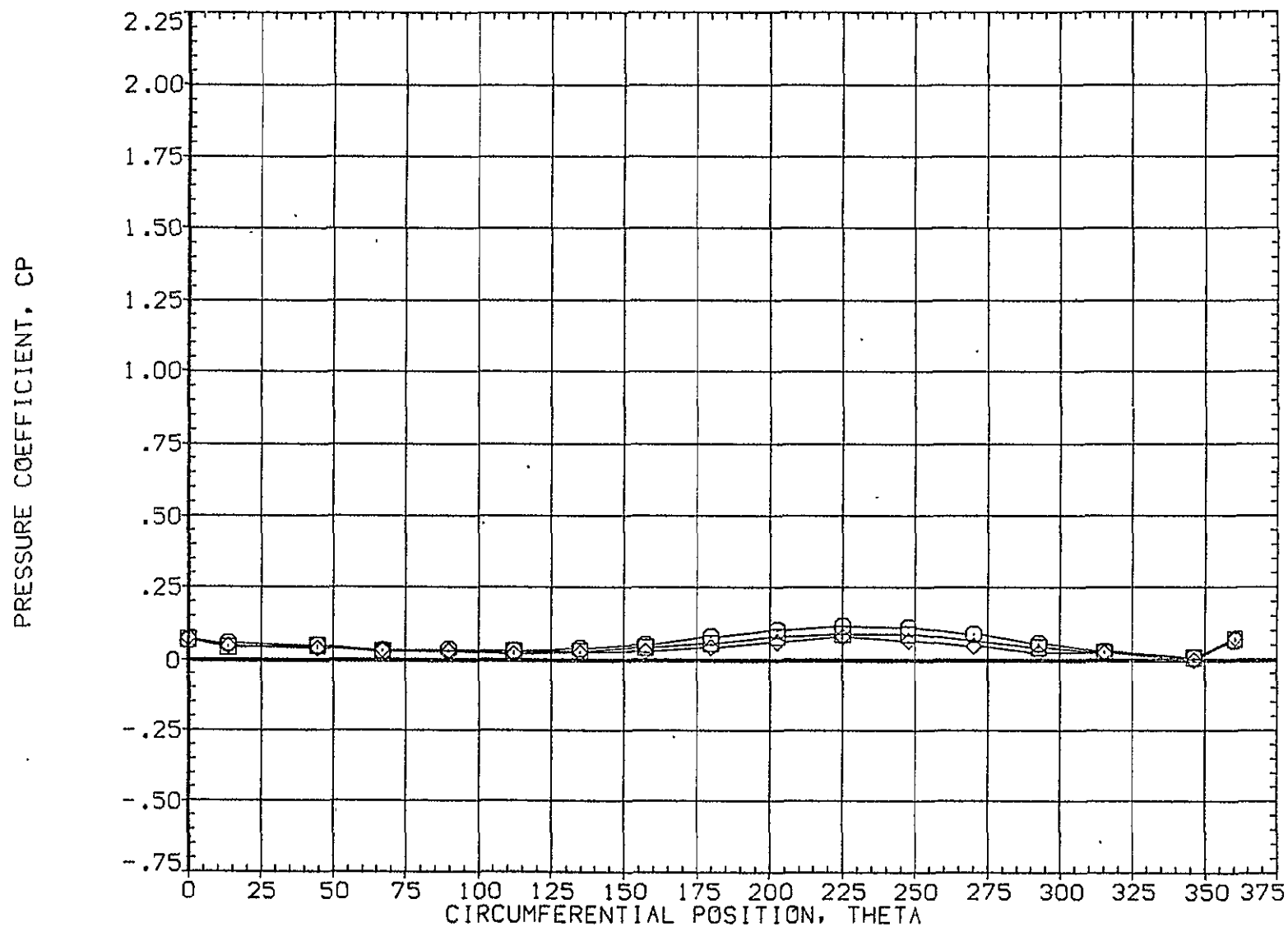


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(PIA086)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	12.450	4.960	BETA	.000	OFFSET	20.000
□	.735			MOUNT	1.000	PHI	45.000
◇	.860						

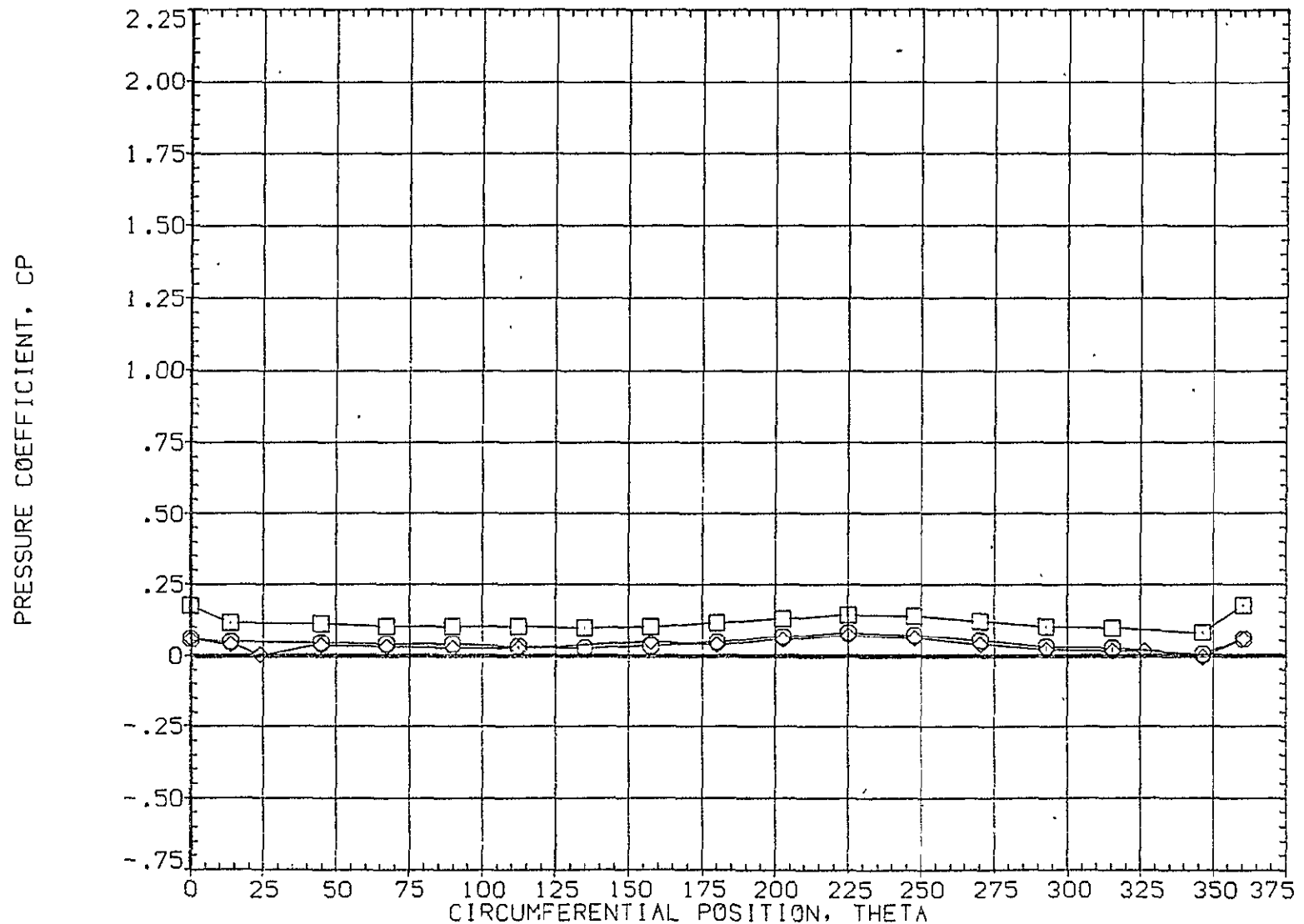


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	12.450	4.960	.000	20.000	
□	.923			1.000	PHI	45.000
◇	.954					

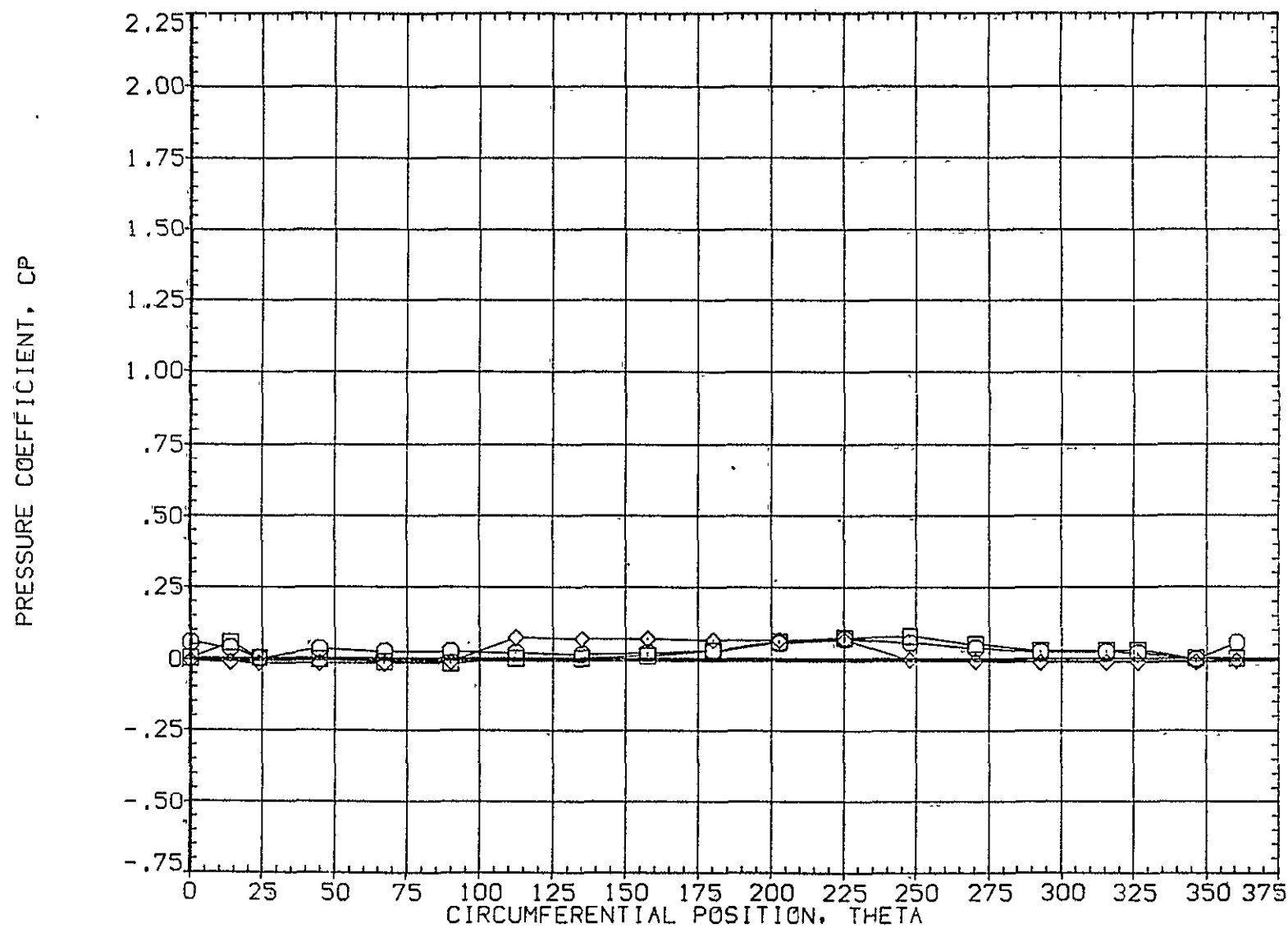


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	16.470	4.960	.000	20.000	
□	.108			1.000	PHI	45.000
◇	.162					

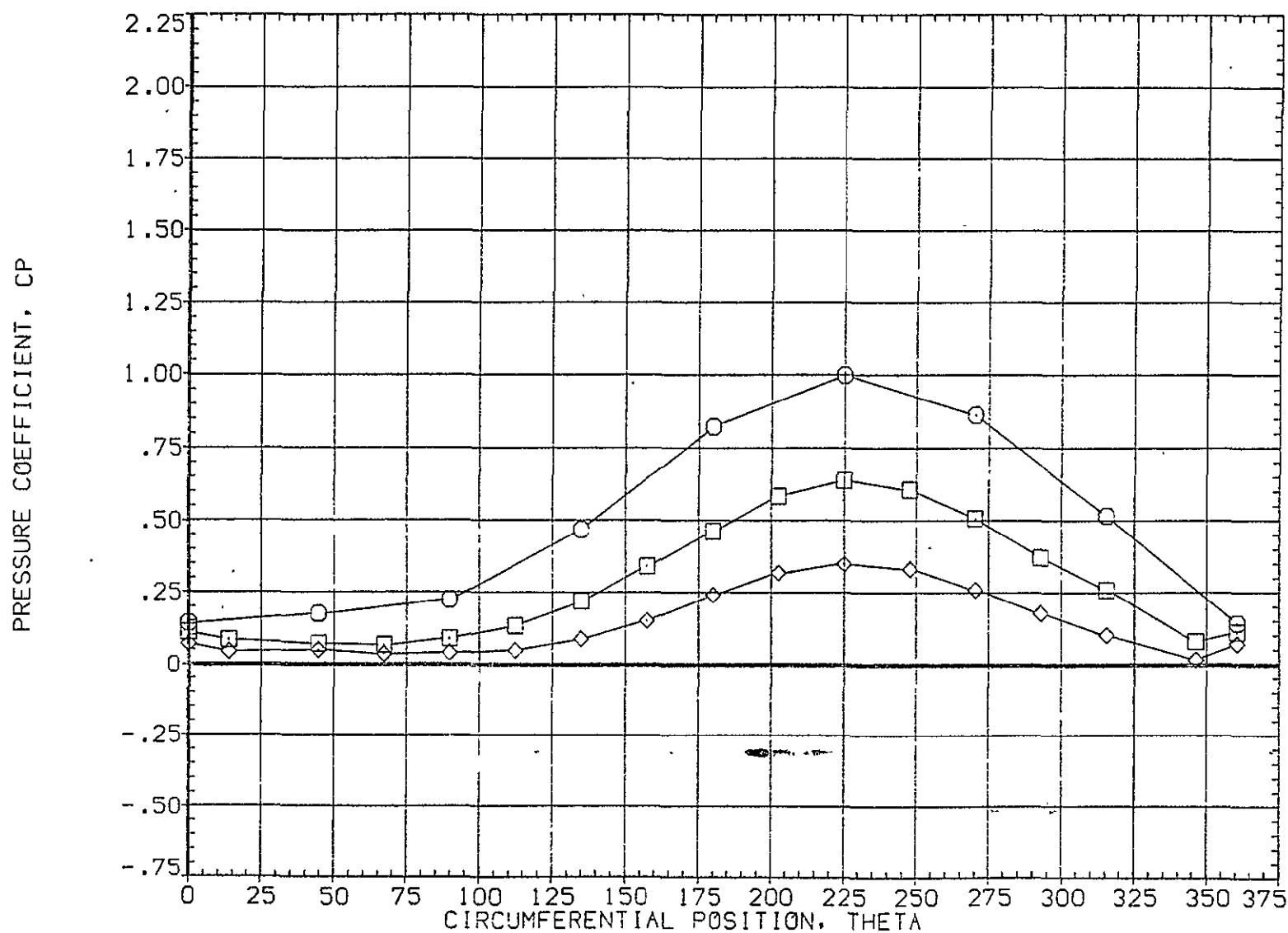


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

BETA

.000

OFFSET

20.000

MOUNT

1.000

PHI

45.000

PRESSURE COEFFICIENT, CP

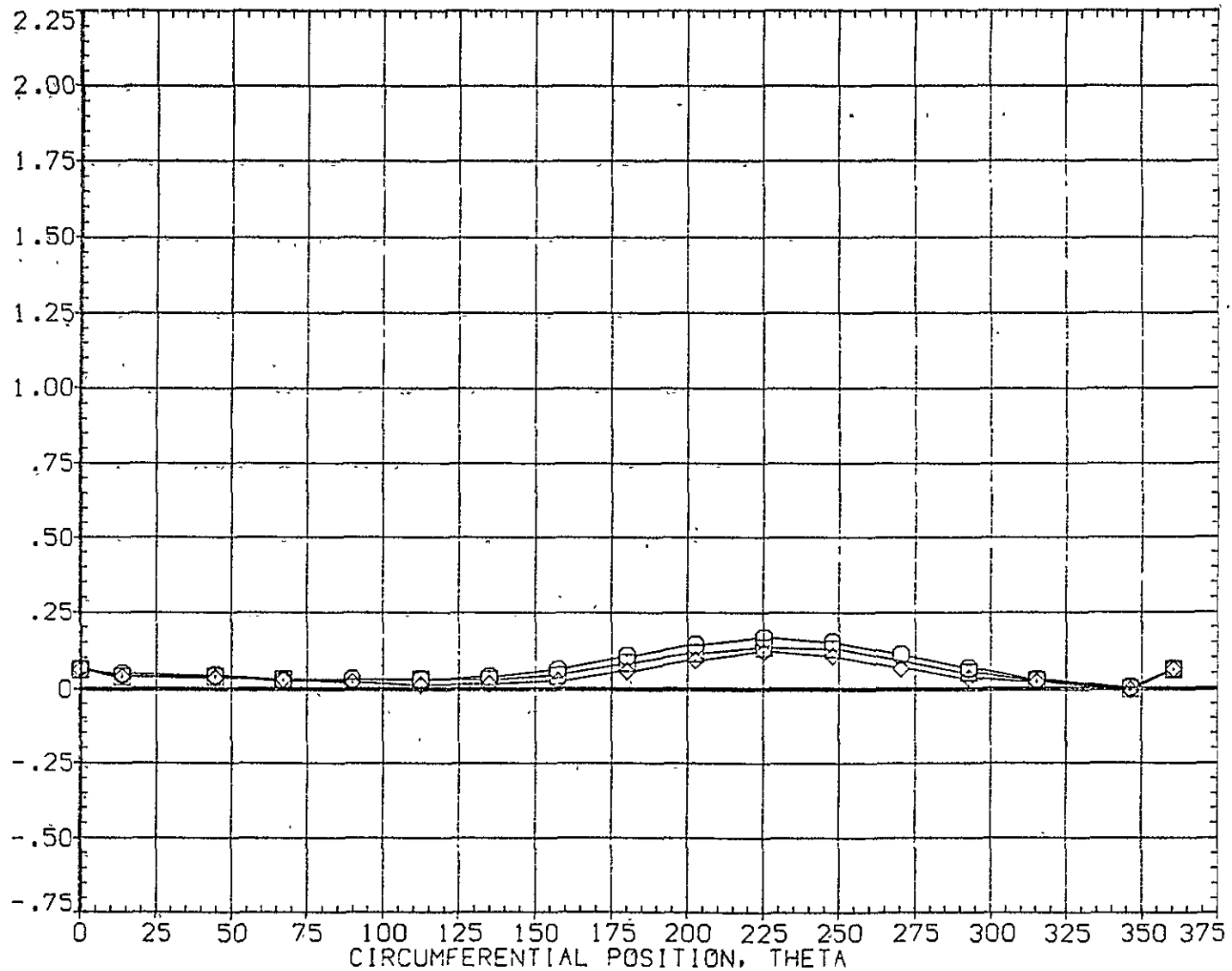


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A087)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	16.470	4.960	MOUNT	.000	PHI	45.000
□	.735				1.000		
◇	.860						

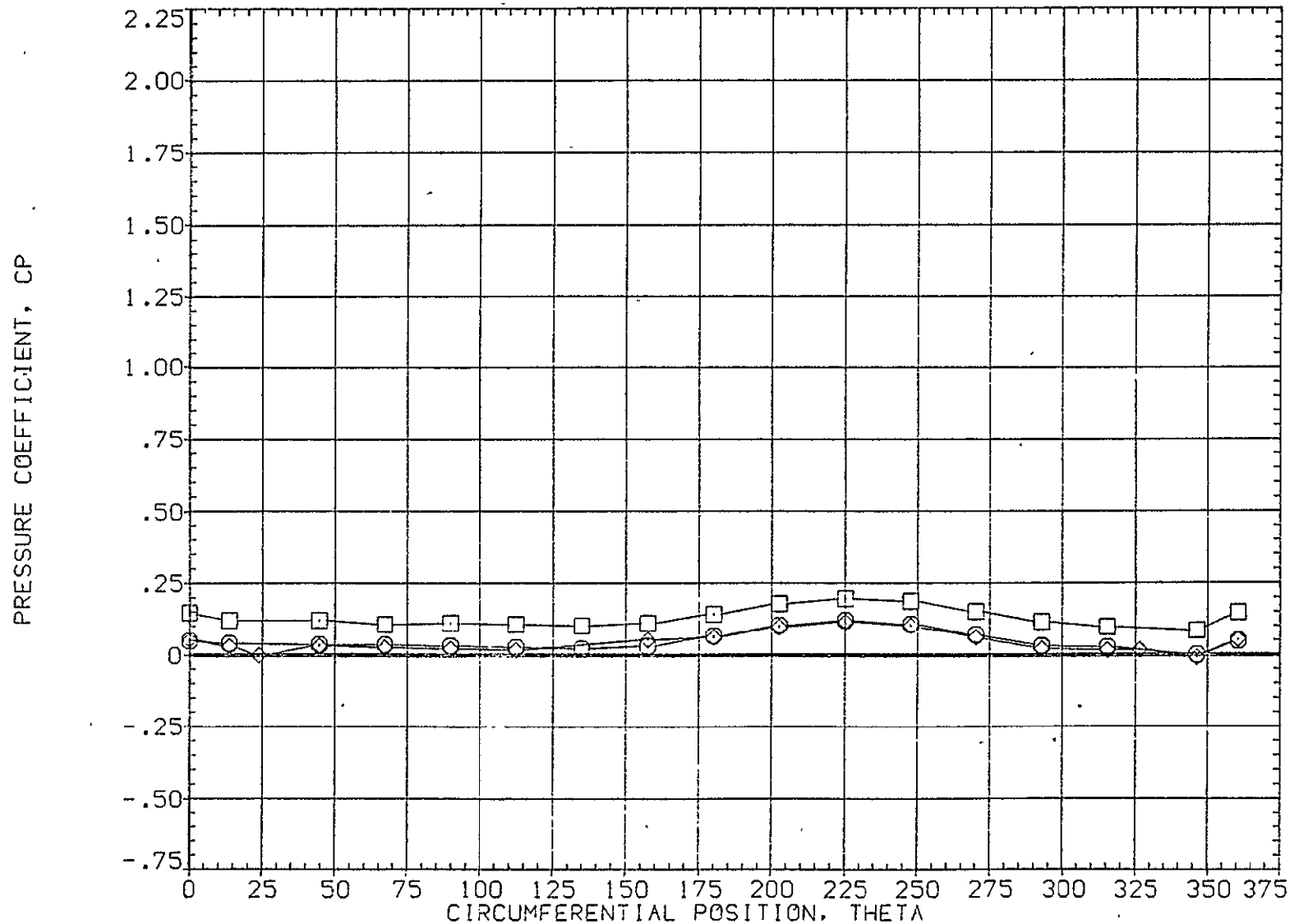


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.892	16.470	4.960	BETA	.000	OFFSET	20.000
□	.923			MOUNT	1.000	PHI	45.000
◇	.954						

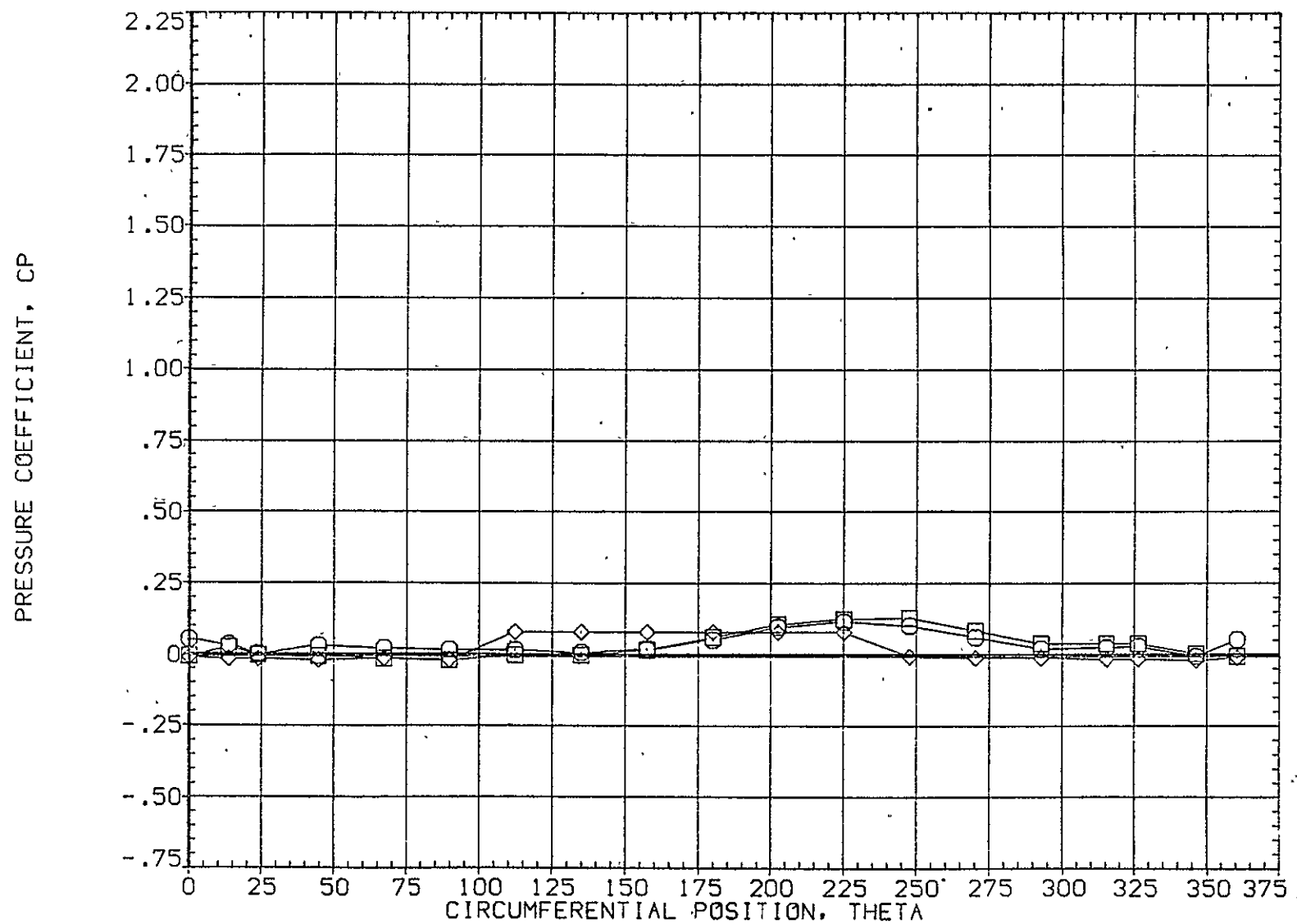


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.055	20.490	4.960	BETA	.000	OFFSET	20.000
□	.108			MOUNT	1.000	PHI	45.000
◇	.162						

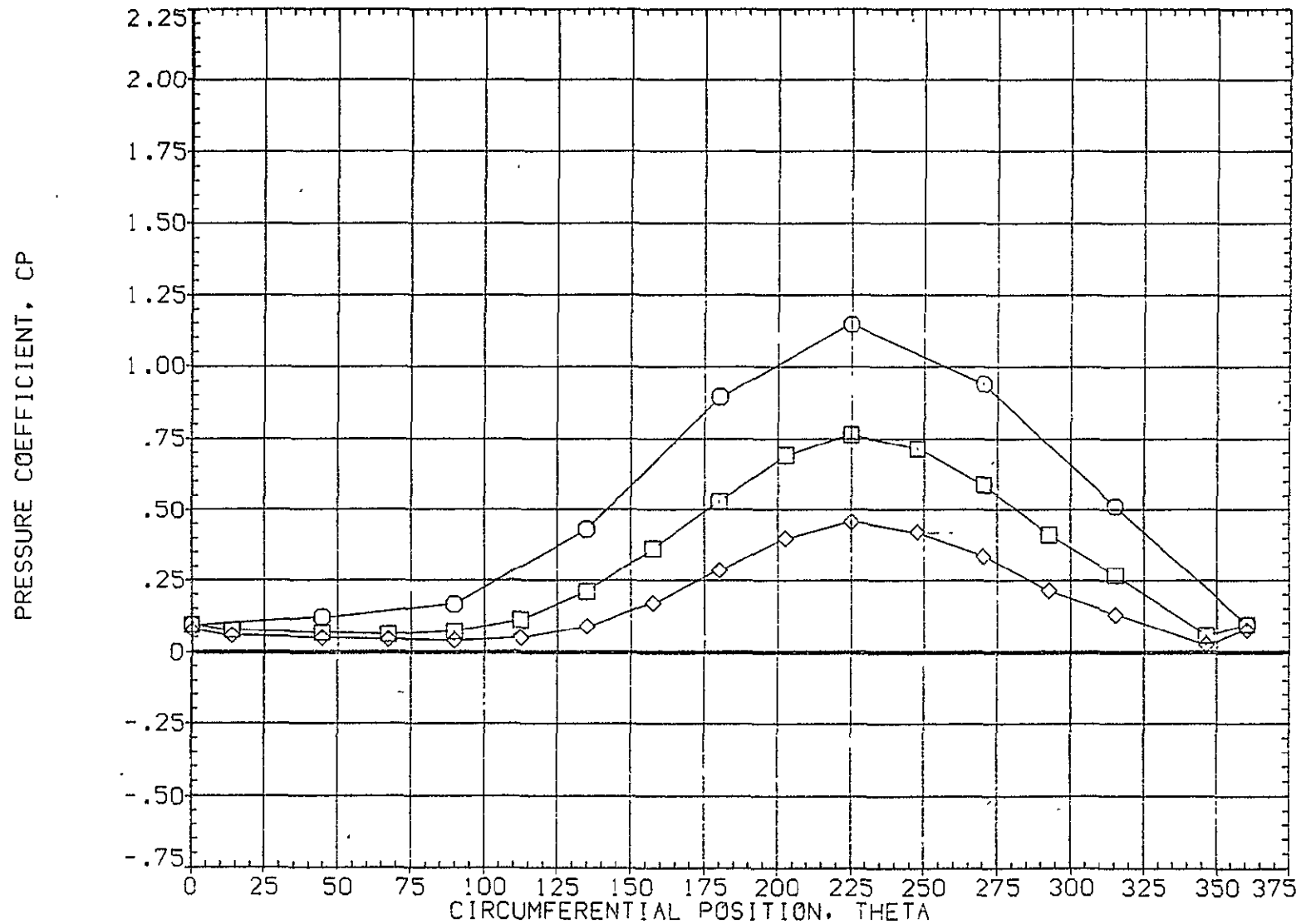


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.490	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	45.000

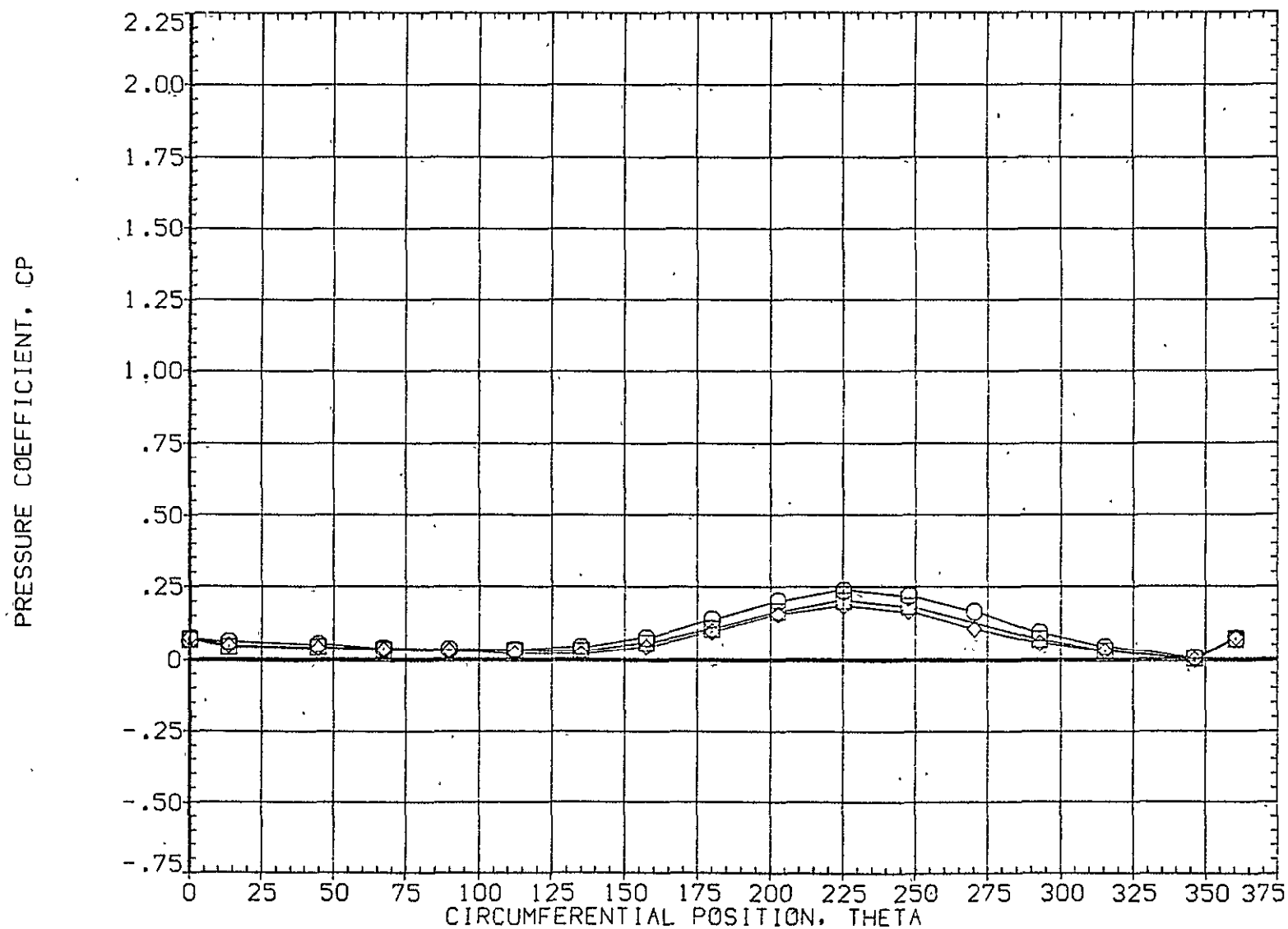


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	20.490	4.960		.000		20.000
□	.735			MCUNT	1.000		45.000
◇	.860						

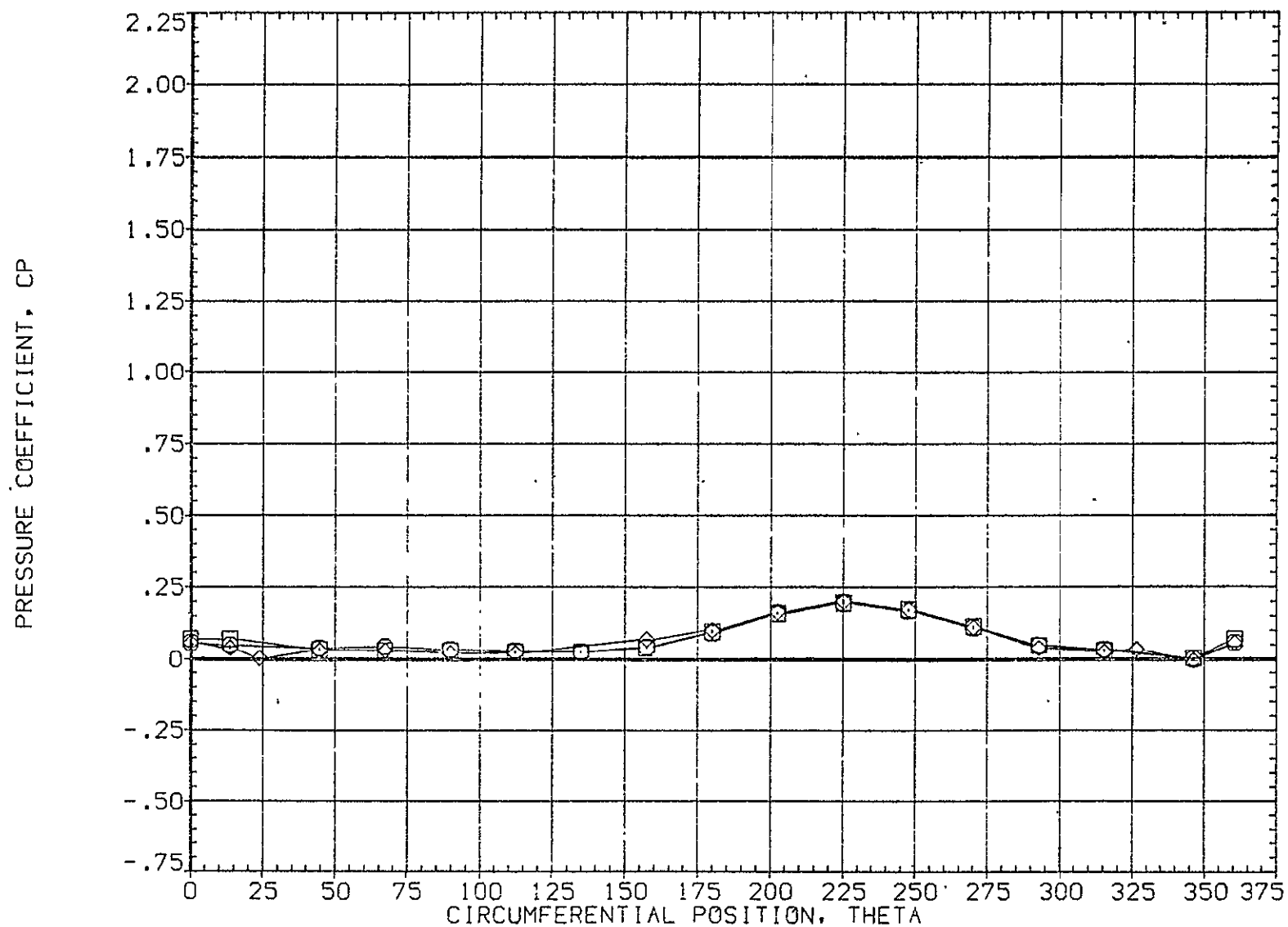


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA MOUNT	.000 1.000 PHI	OFFSET 20.000 45.000	
○	.892	20.490	4.960				
□	.923						
◇	.954						

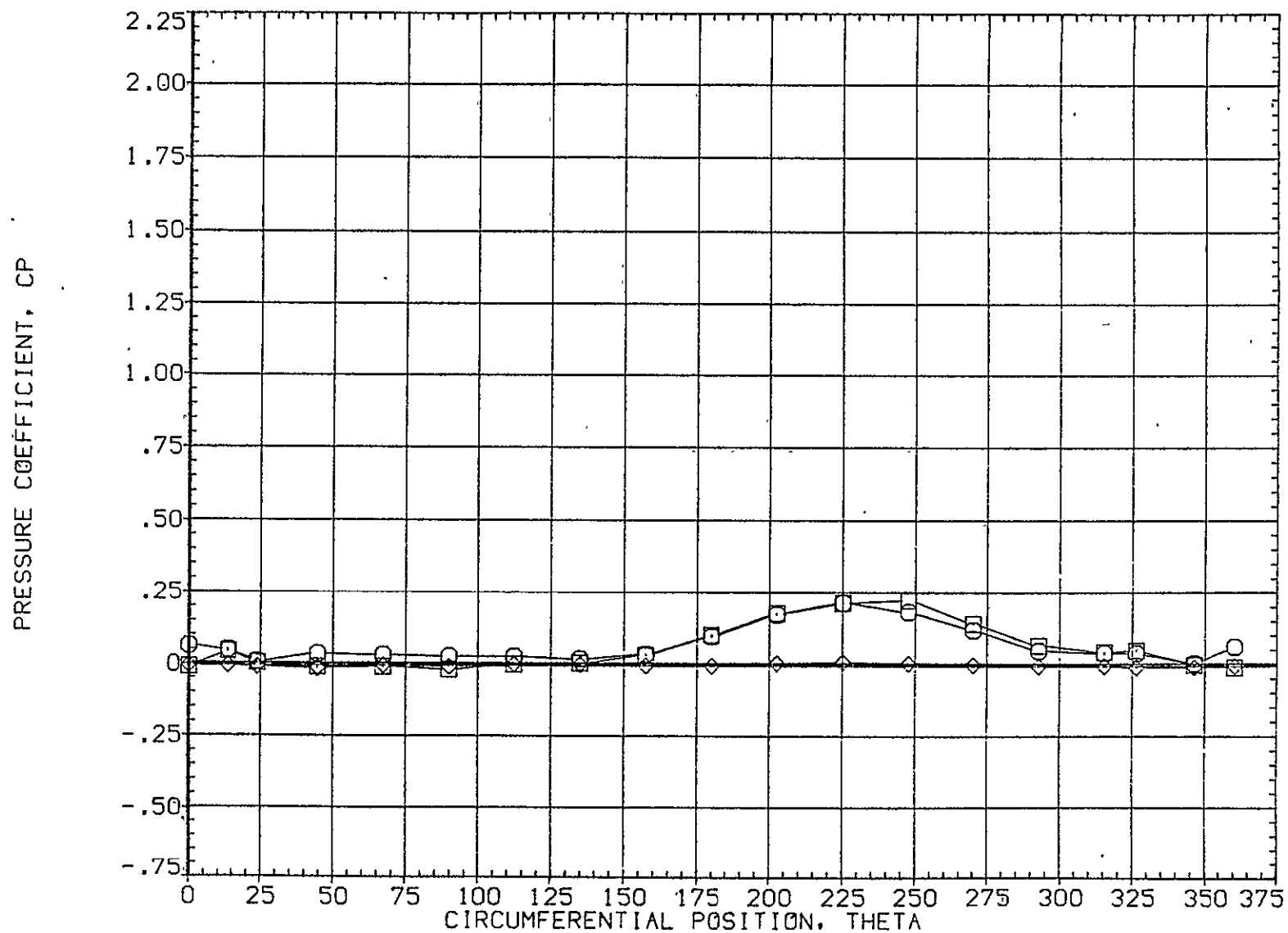


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	24.510	4.960				20.000
□	.108						45.000
◇	.162						

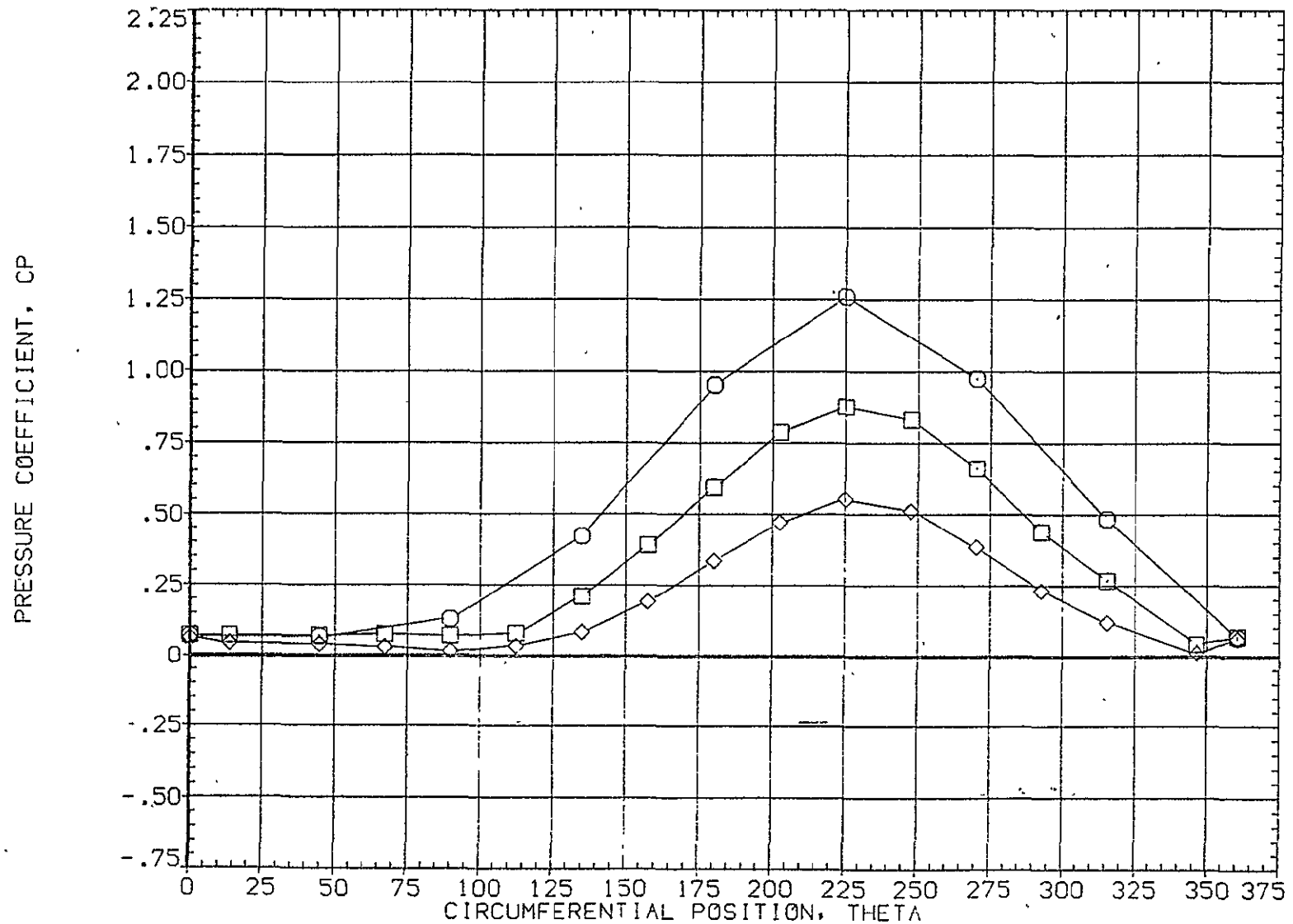


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.216	24.510	4.960		.000		20.000
□	.322			MOUNT	1.000		45.000
◇	.518						

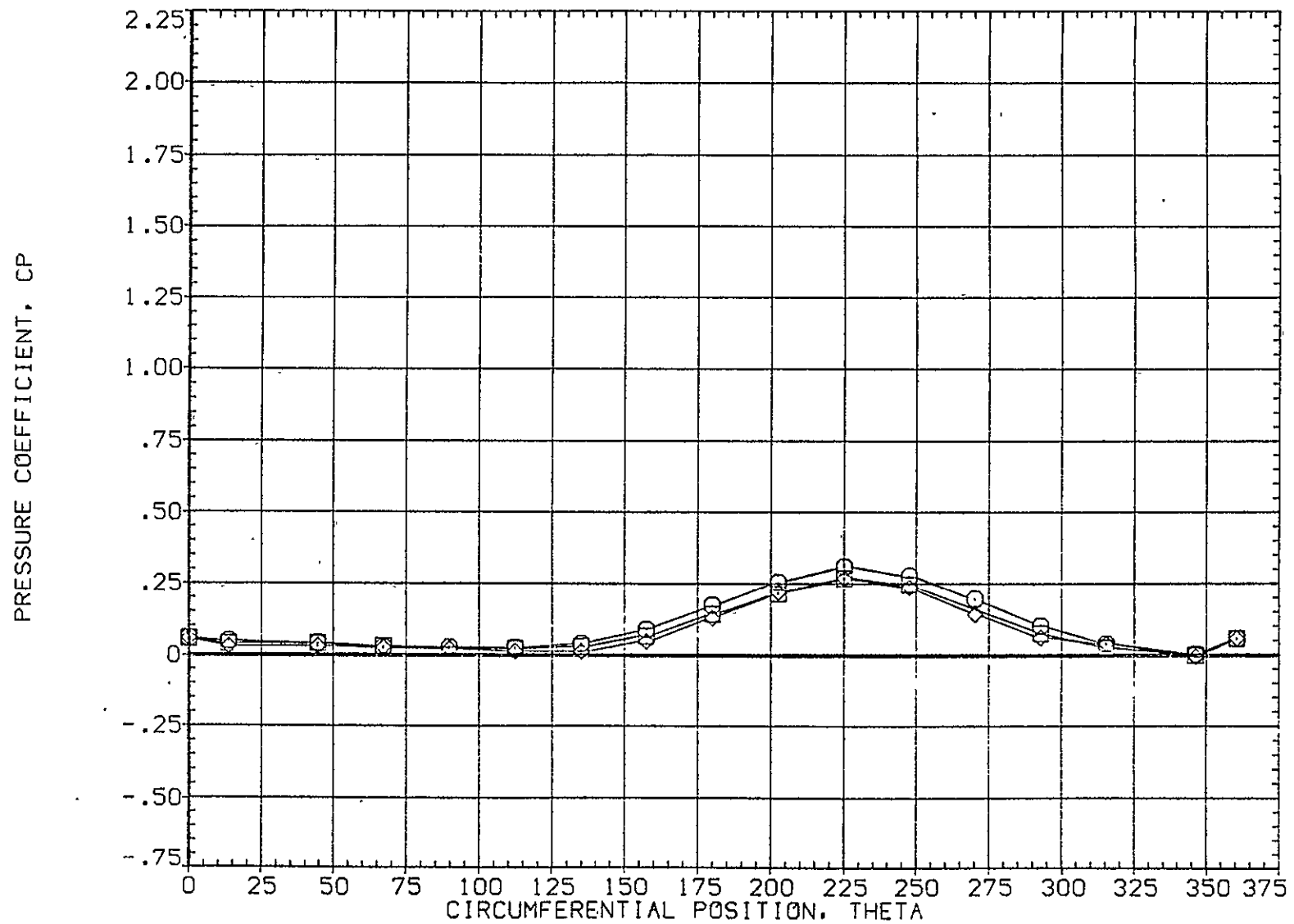


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A089)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	24.510	4.960	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	45.000
◇	.860						

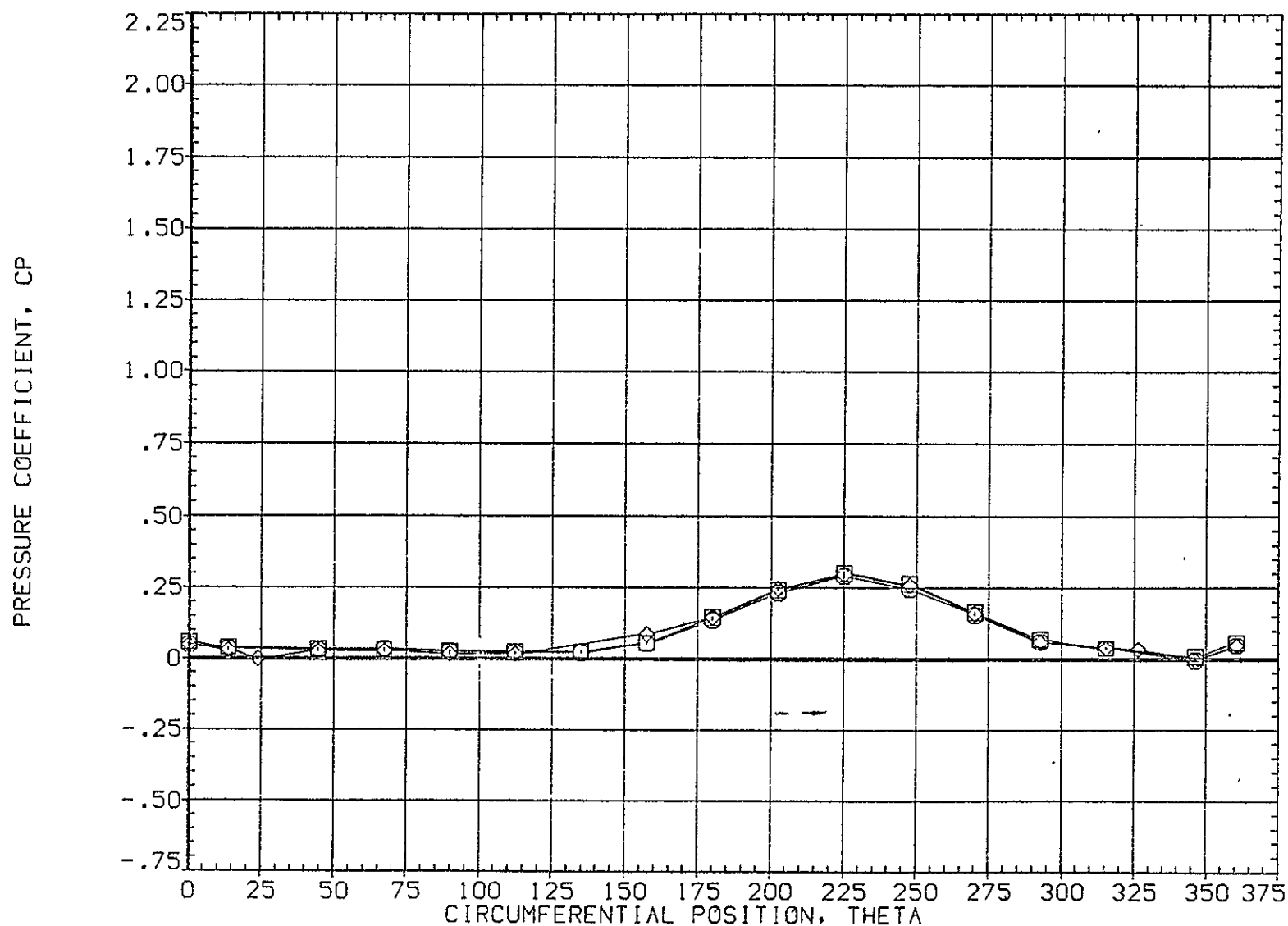


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	24.510	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	45.000

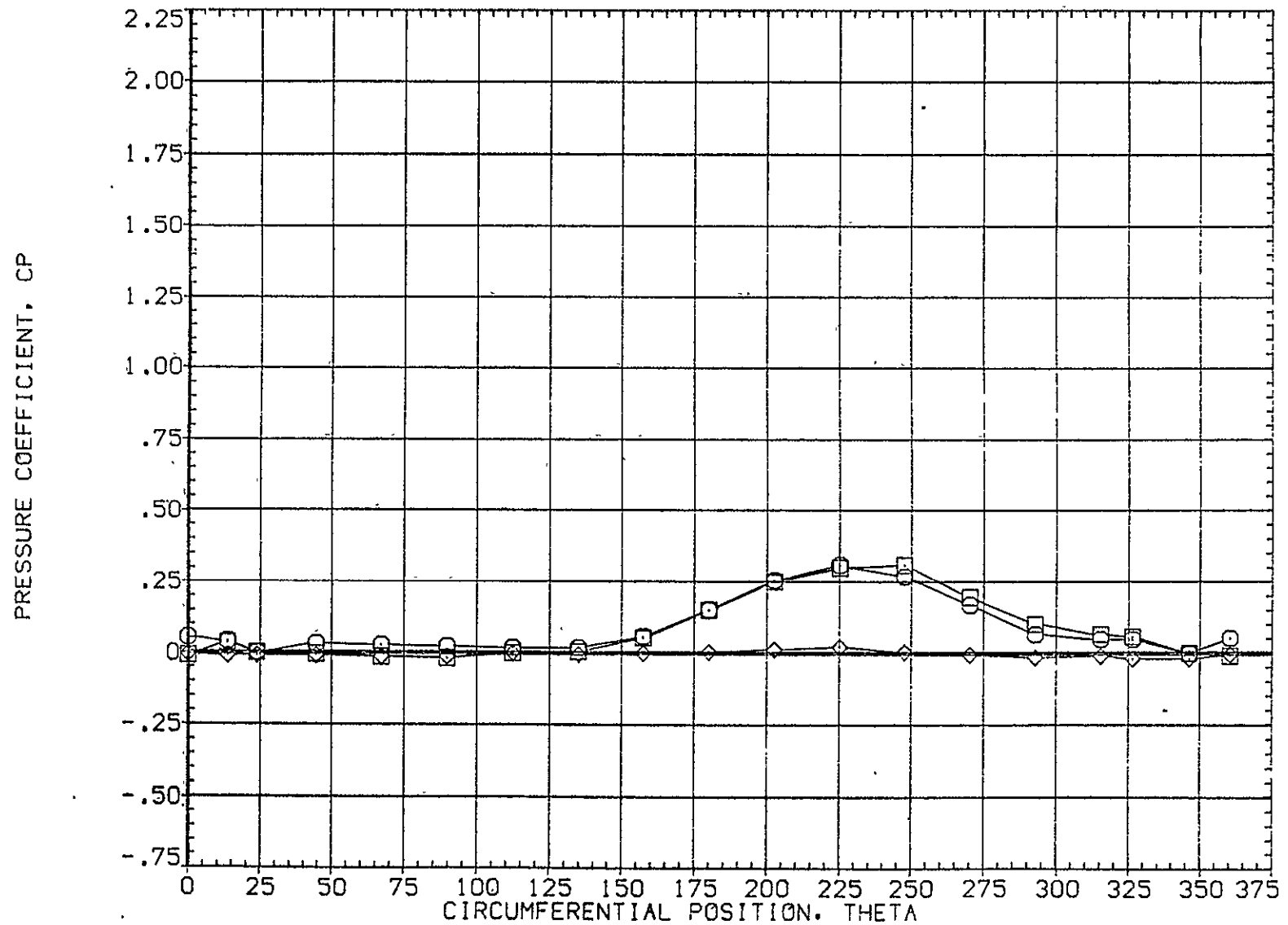


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	28.540	4.960			20.000
□	.108			MOUNT	1.000	PHI 45.000
◇	.162					

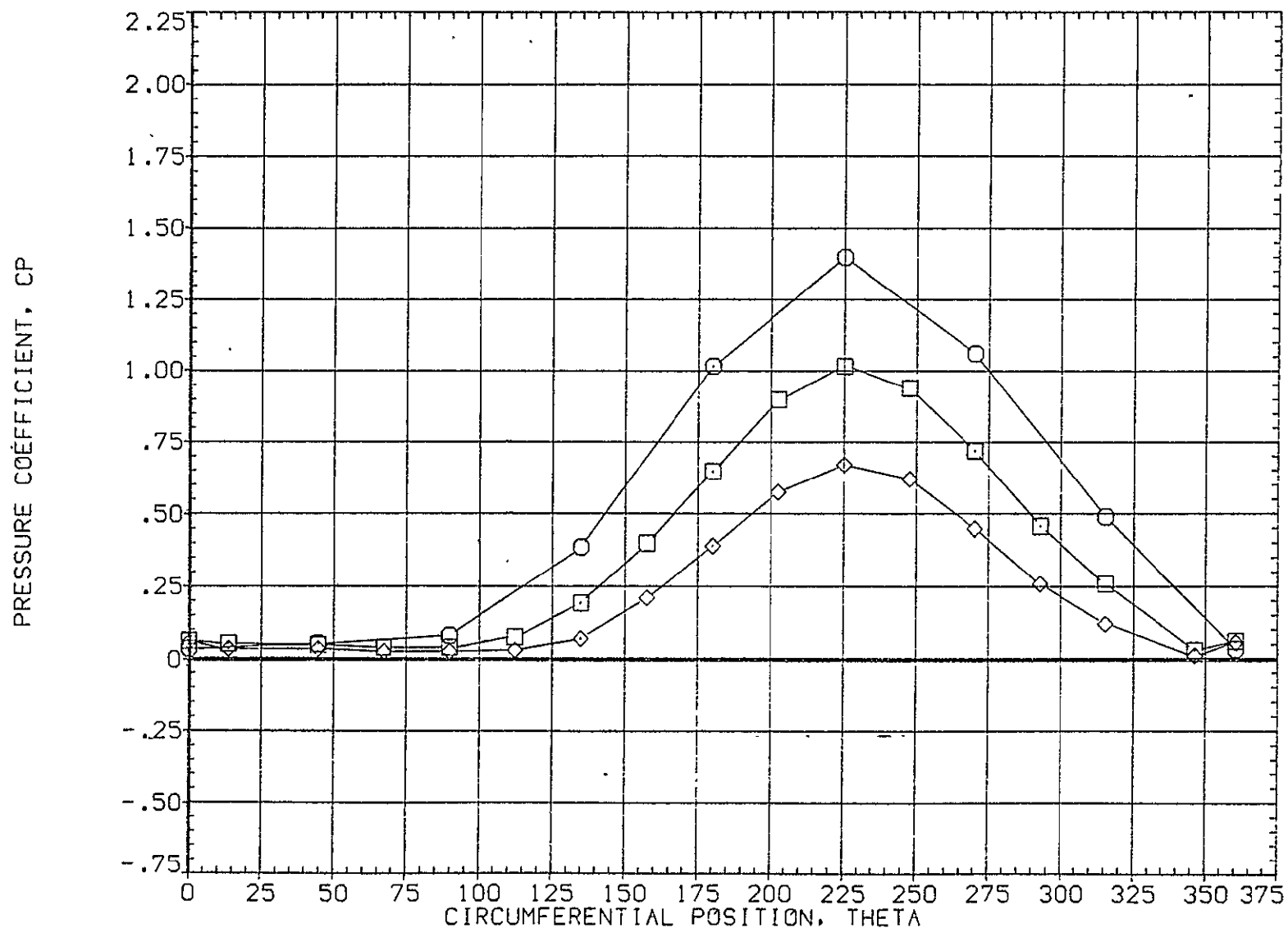


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

ALPHA

MACH

.216
.322
.518

28.540

4.960

PARAMETRIC VALUES

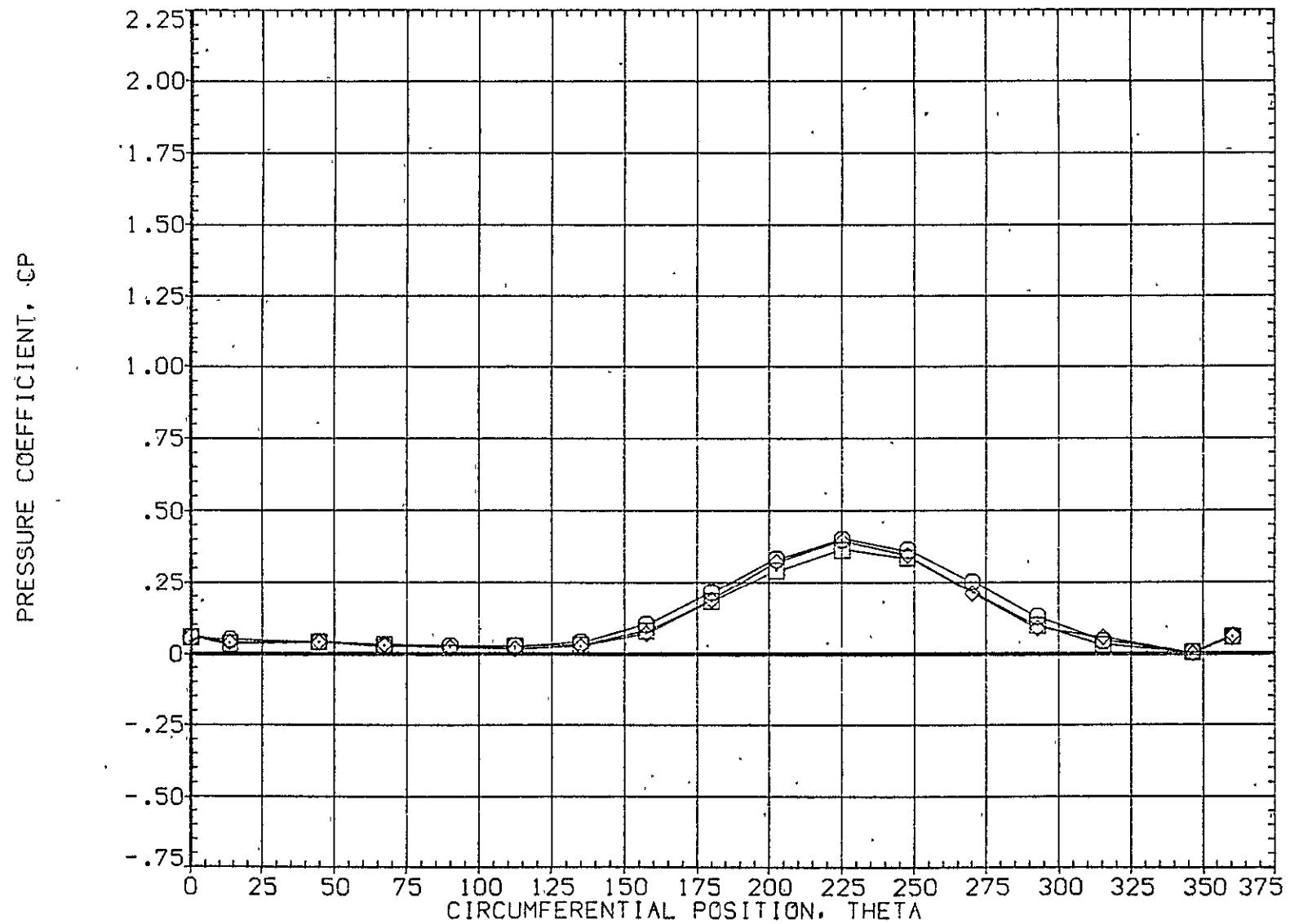
BETA
MOUNT.000
1.000OFFSET
PHI20.000
45.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A090)

SYMBOL	X/LB	ALPHA	MACH
○	.610	28.540	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	45.000

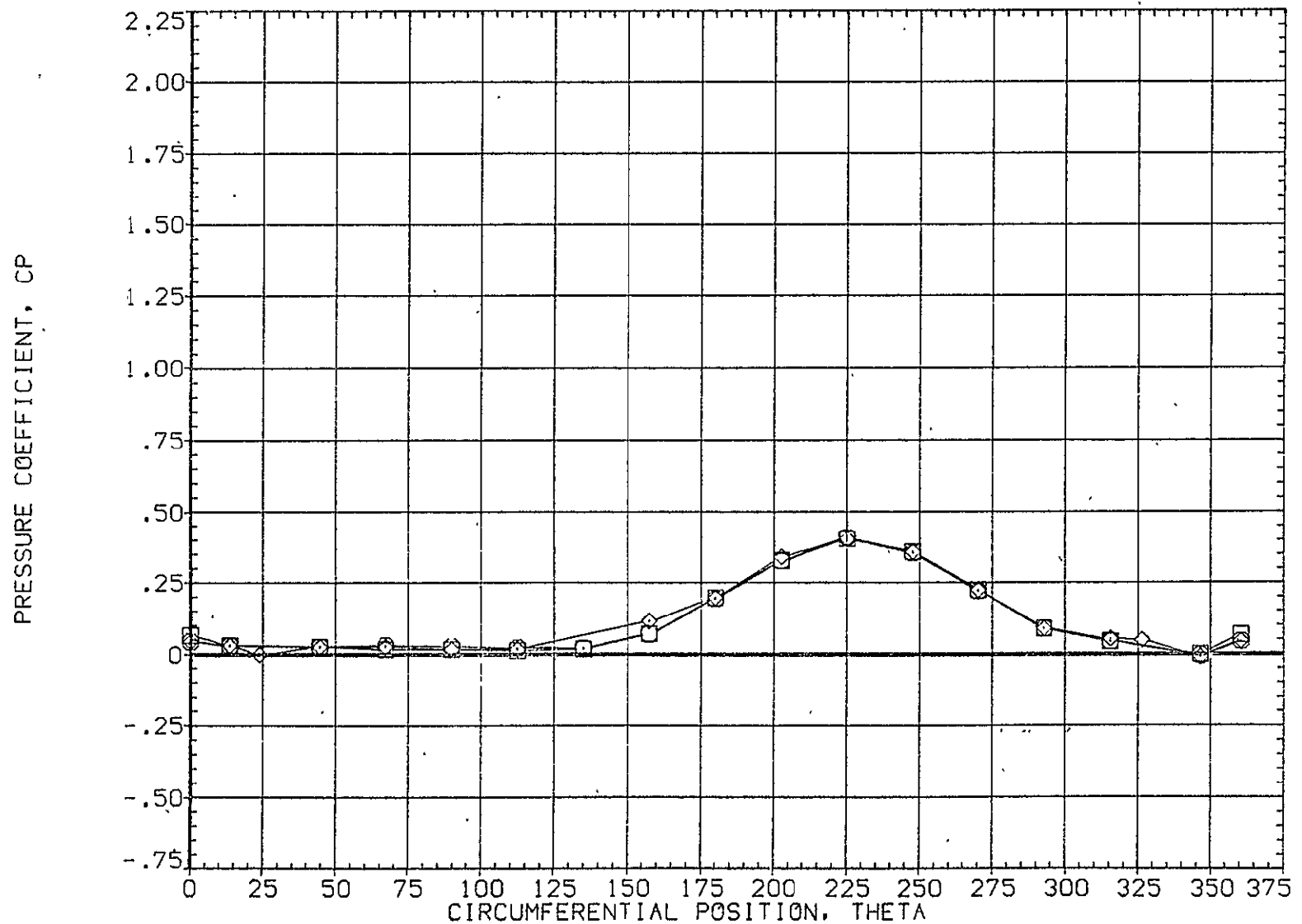


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	28.540	4.960				20.000
□	.923			MOUNT	1.000		45.000
◇	.954						

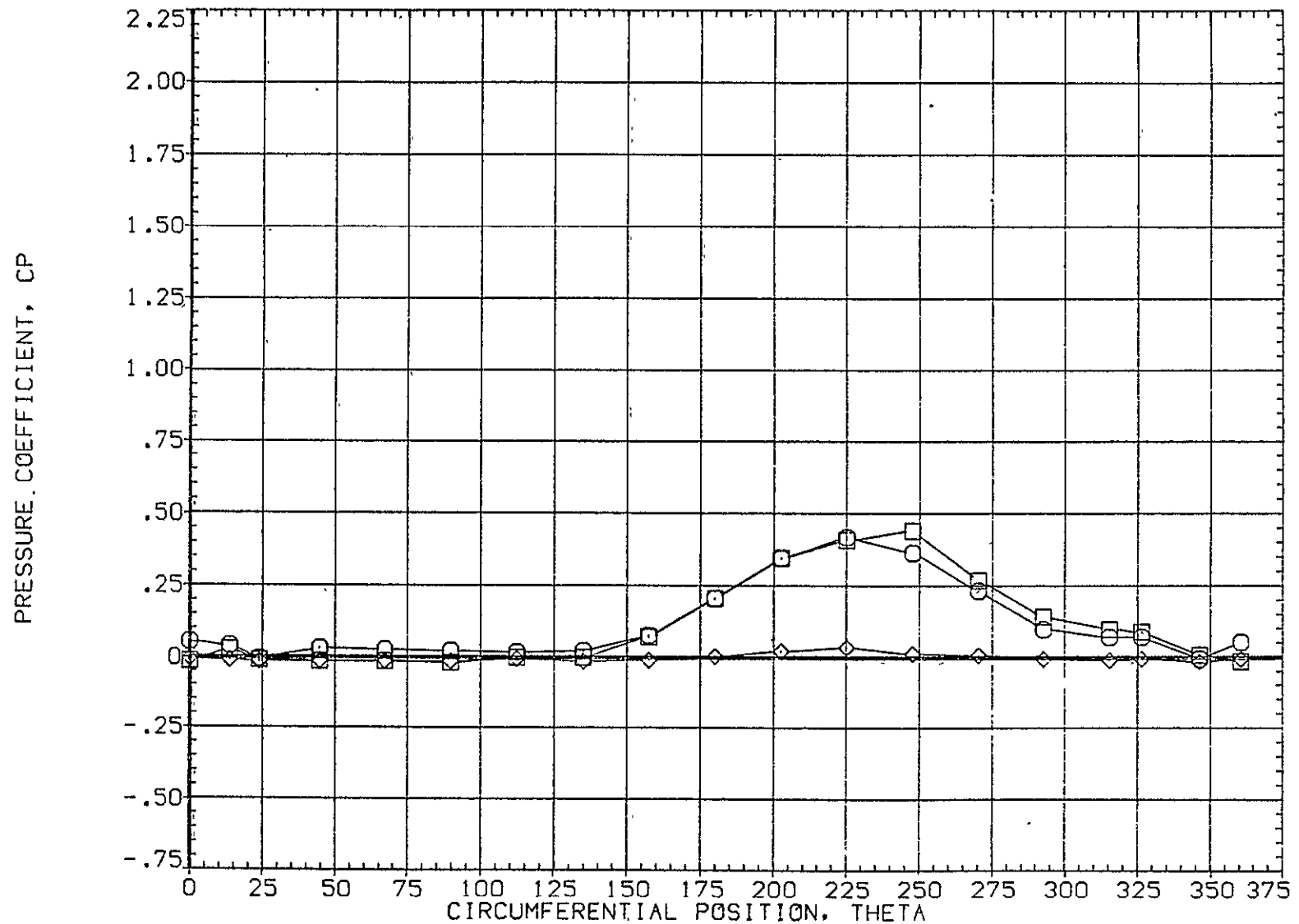


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	-8.310	4.960	.000	.000	.000
□	.108			1.000	PHI	90.000
◇	.162					

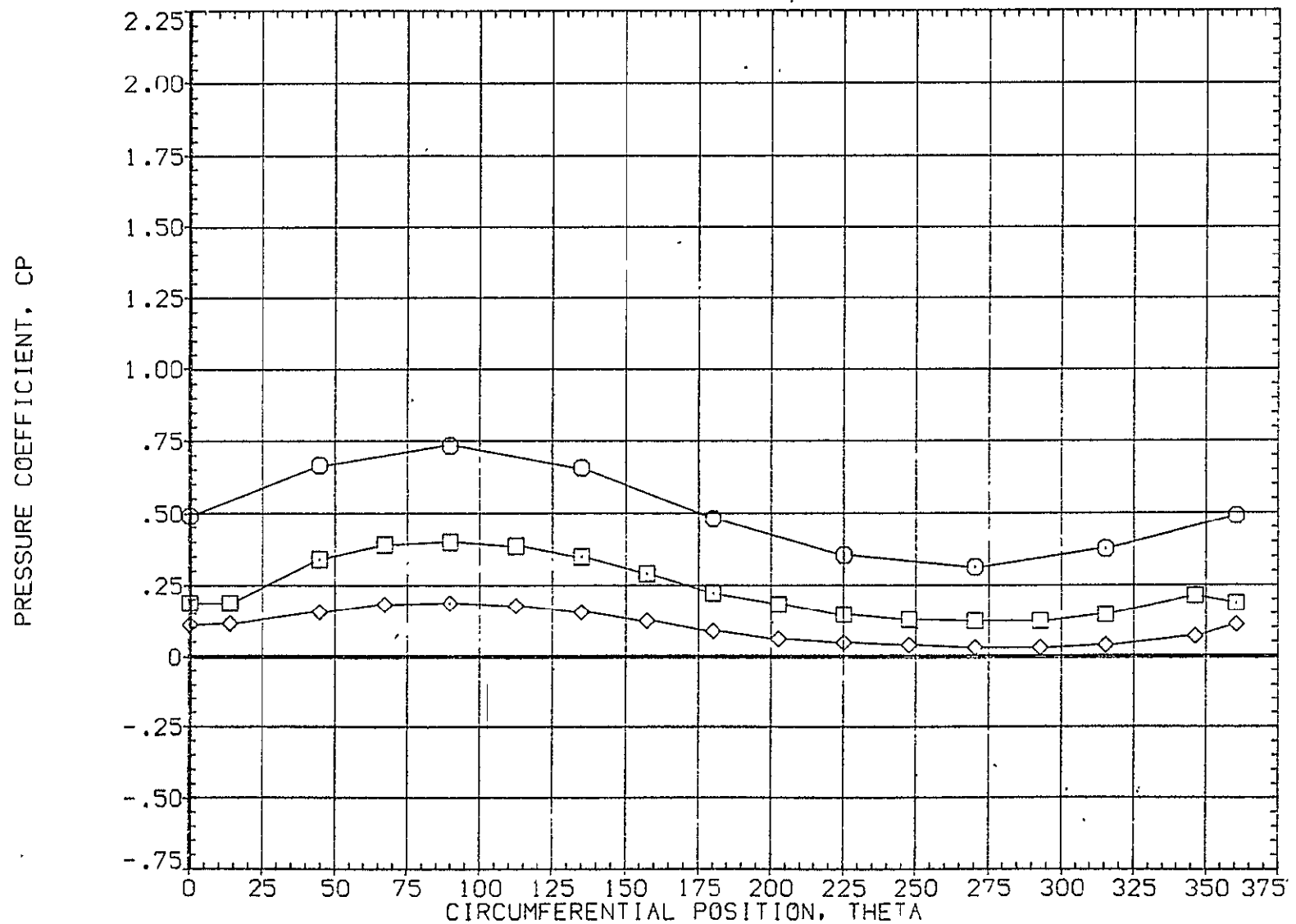


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
◇	.216	-8.310	4.960			.000
□	.322			MOUNT	1.000	PHI 90.000
◇	.518					

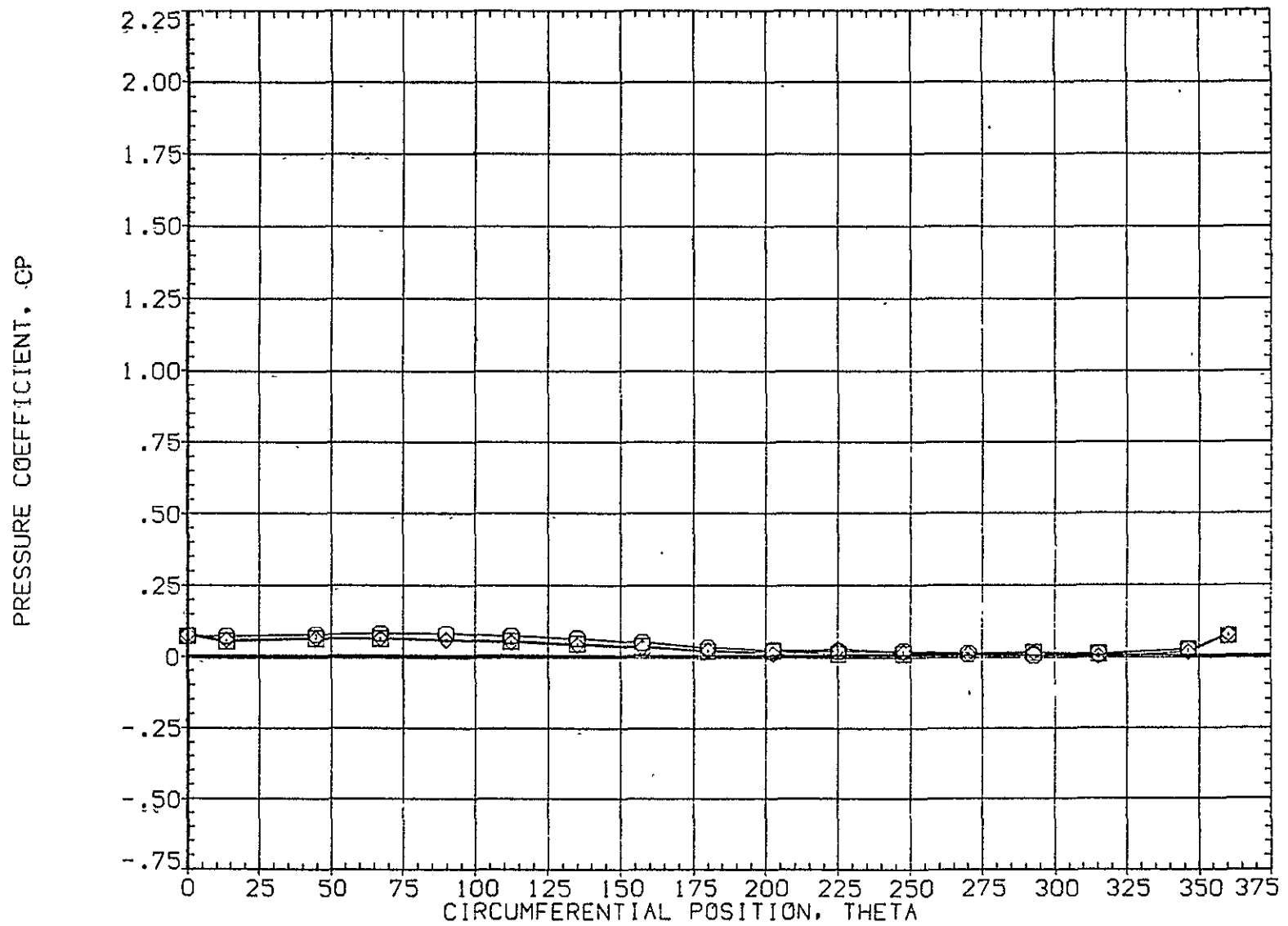


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.510	-8.310	4.960	MOUNT	.000	PHI	.000
□	.735				1.000		90.000
◇	.860						

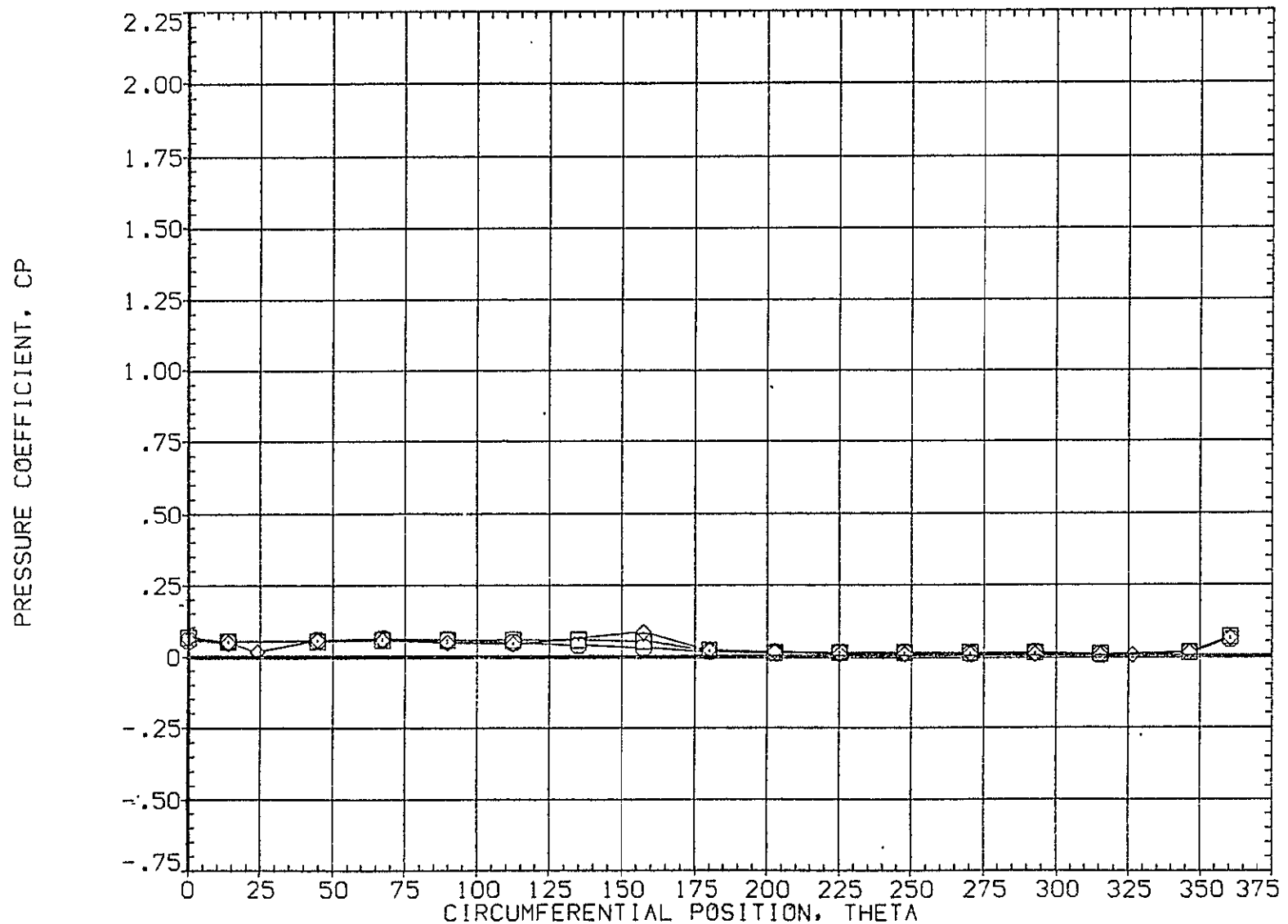


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.892	-8.310	4.960	BETA	.000	OFFSET	.000
□	.923			MOUNT	1.000	PHI	90.000
◇	.954						

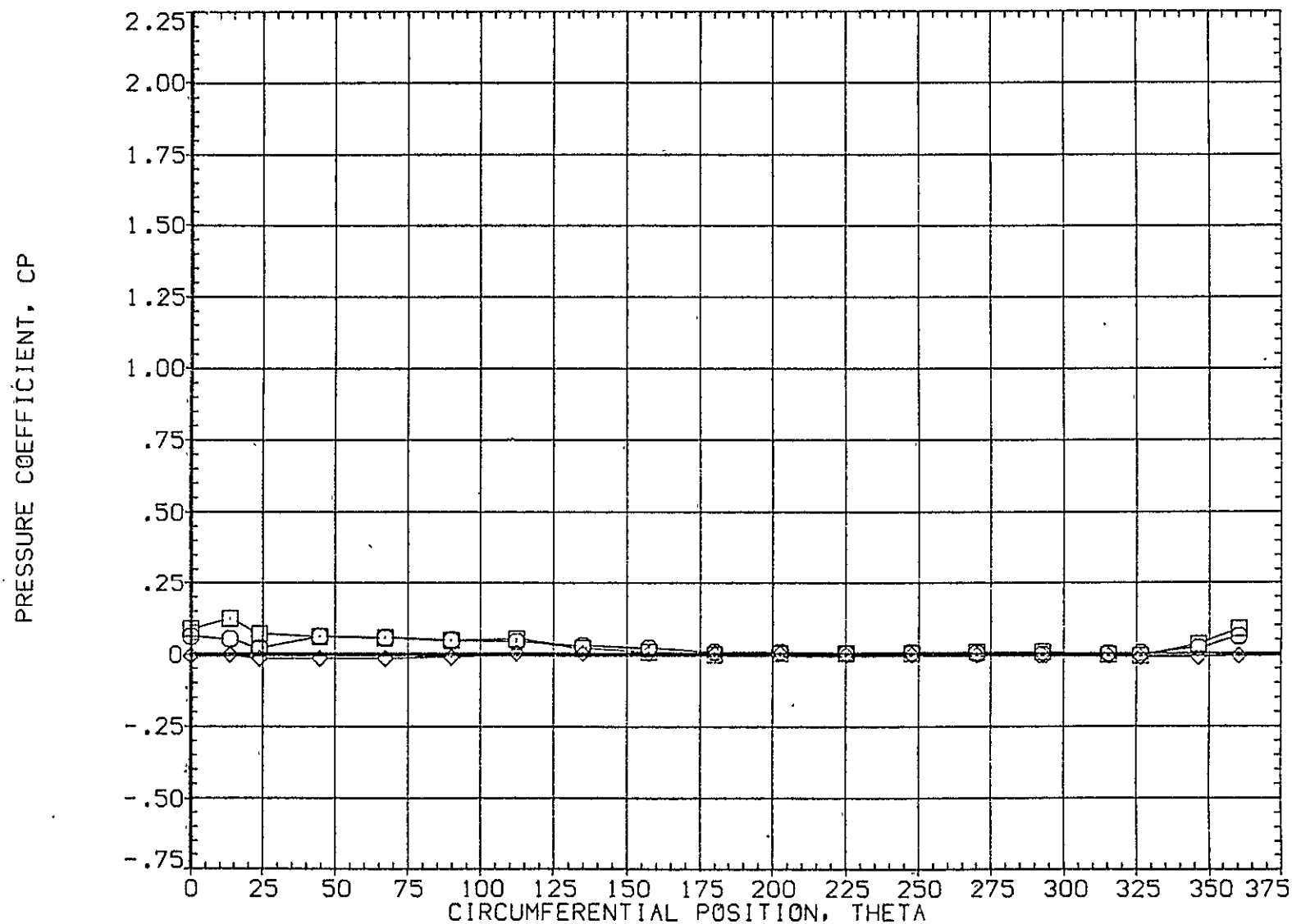


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	-4.290	4.960			.000
□	.108			MOUNT	1.000	PHI 90.000
◇	.162					

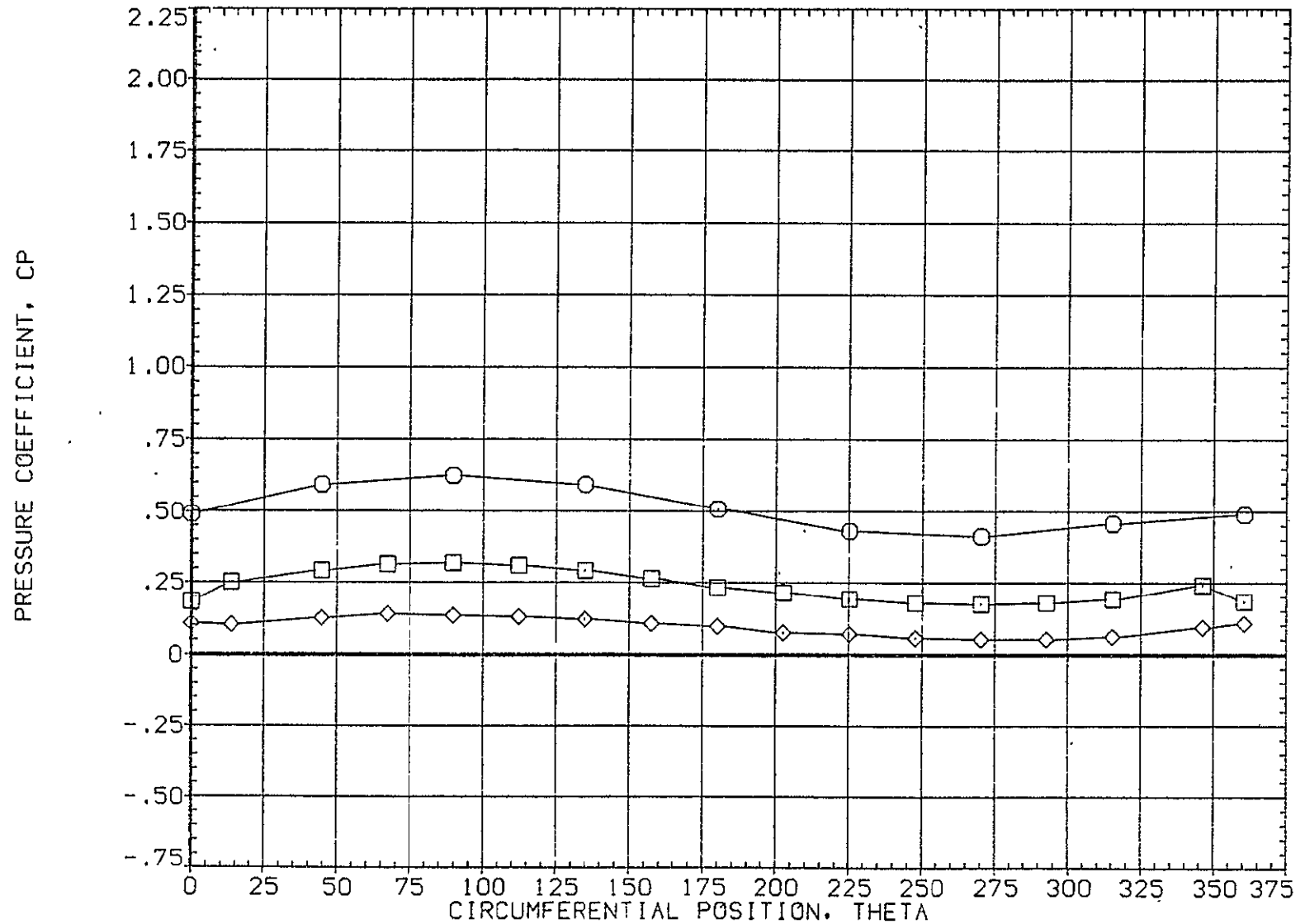


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.216	-4.290	4.960	MOUNT	.000 OFFSET .000
□	.322				1.000 PHI 90.000
◇	.518				

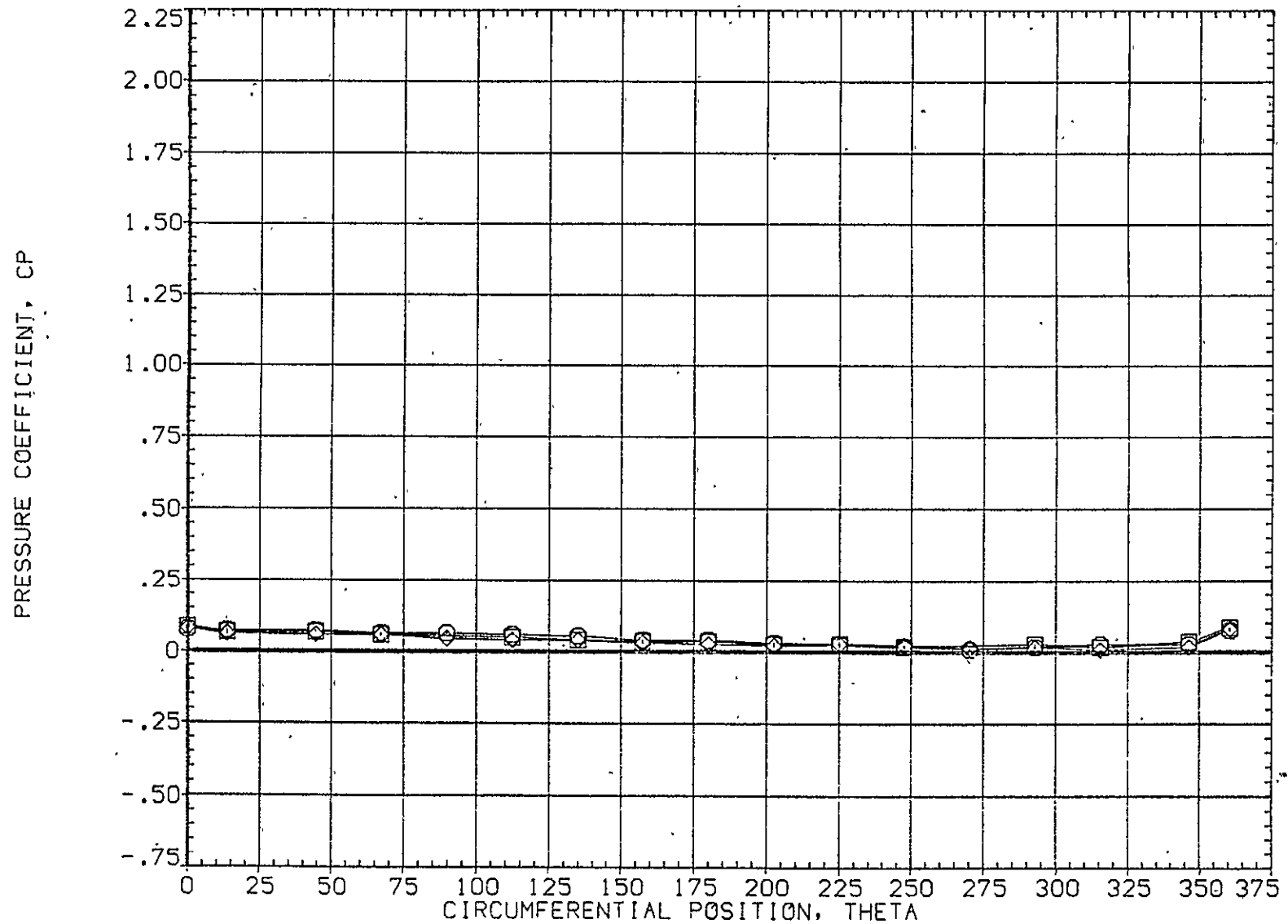


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A012)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	
○	.610	-4.290	4.960	MOUNT	.000	OFFSET .000
□	.735				1.000	PHI 90.000
◇	.860					

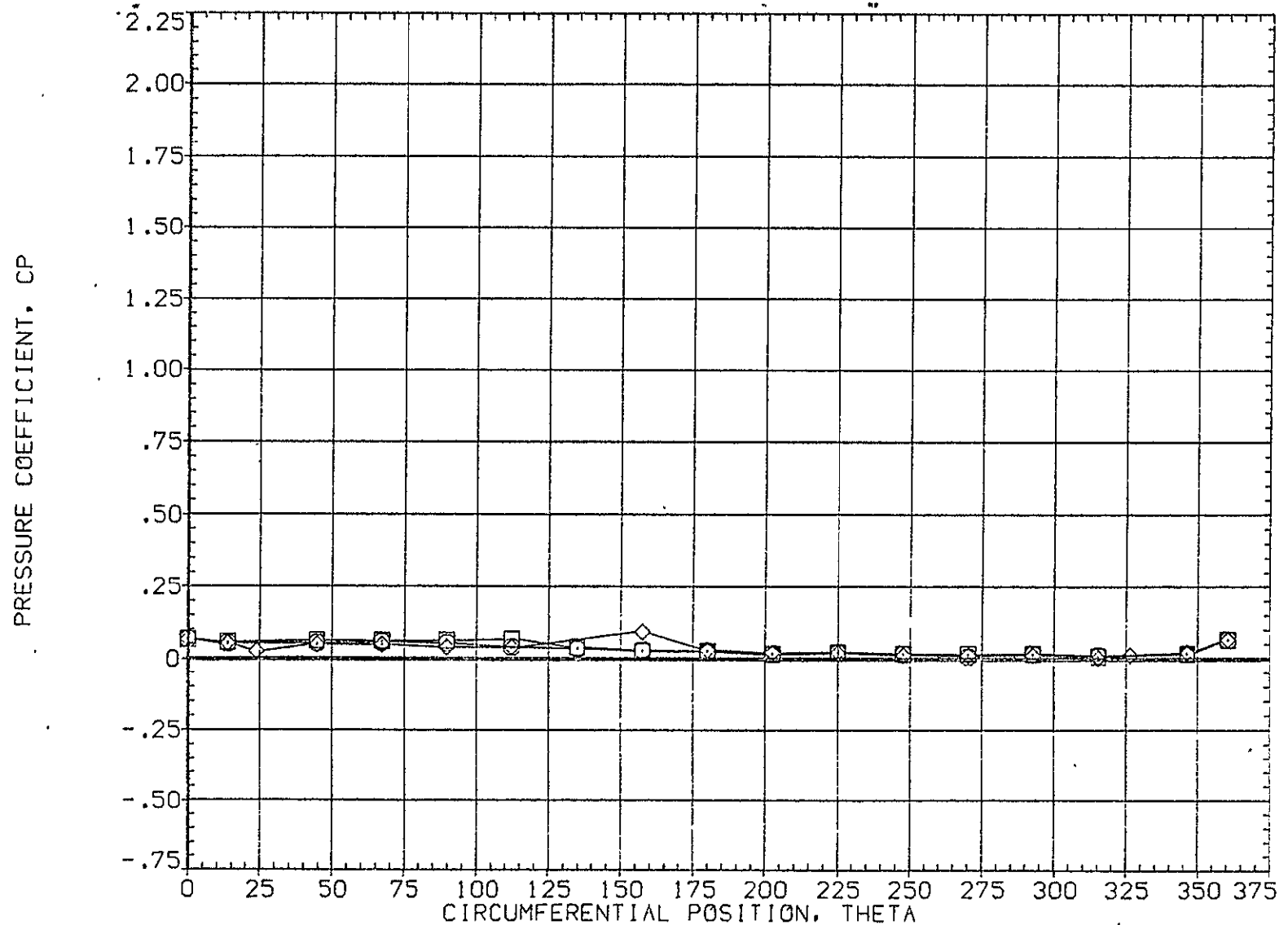


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

.892

.923

.954

ALPHA

-4.290

MACH

4.960

BETA

PARAMETRIC VALUES

.000

OFFSET

.000

MOUNT

1.000

PHI

90.000

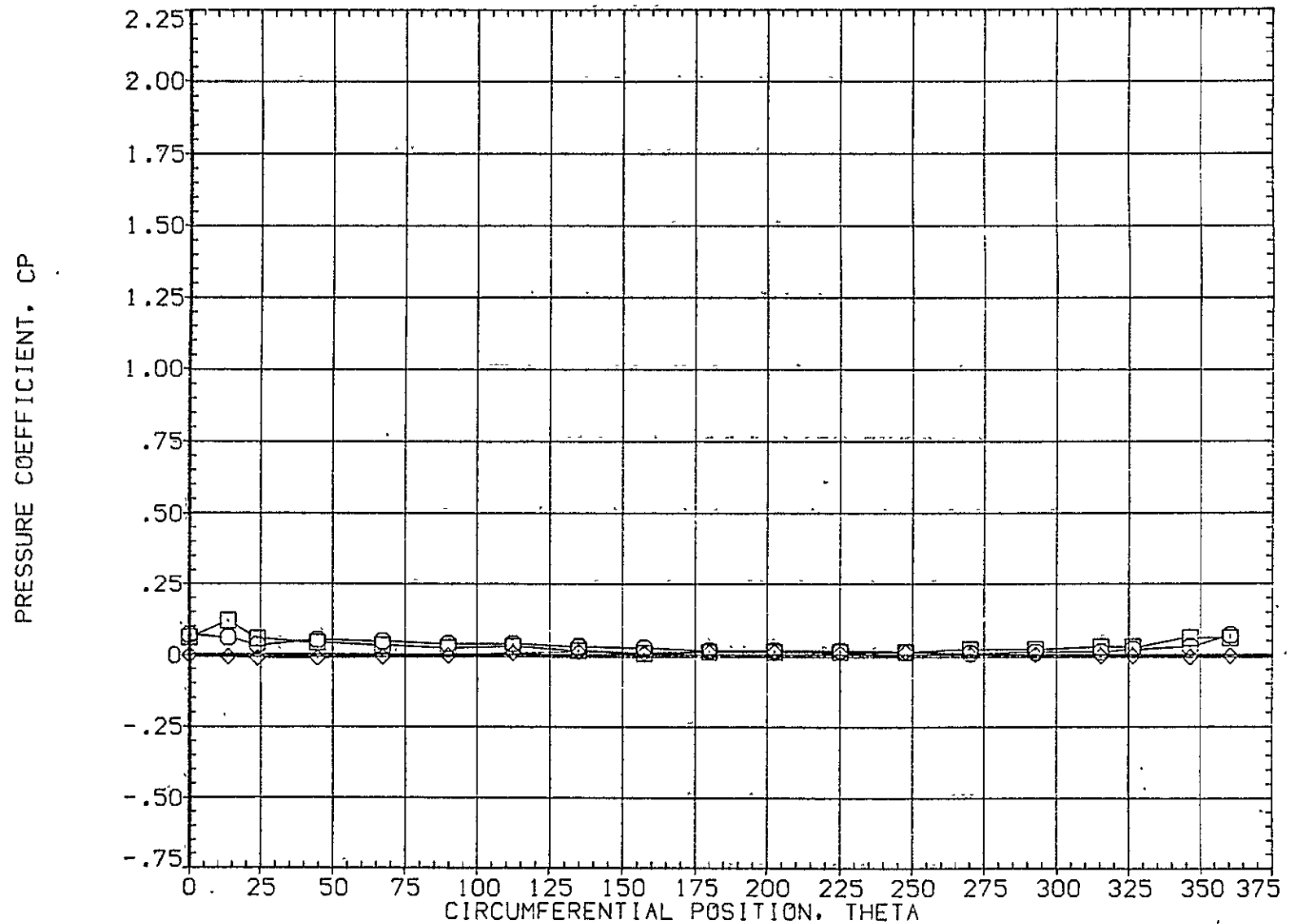


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.055	-.280	4.960	.000	.000	.000	
□	.108			1.000			
◇	.162						90.000

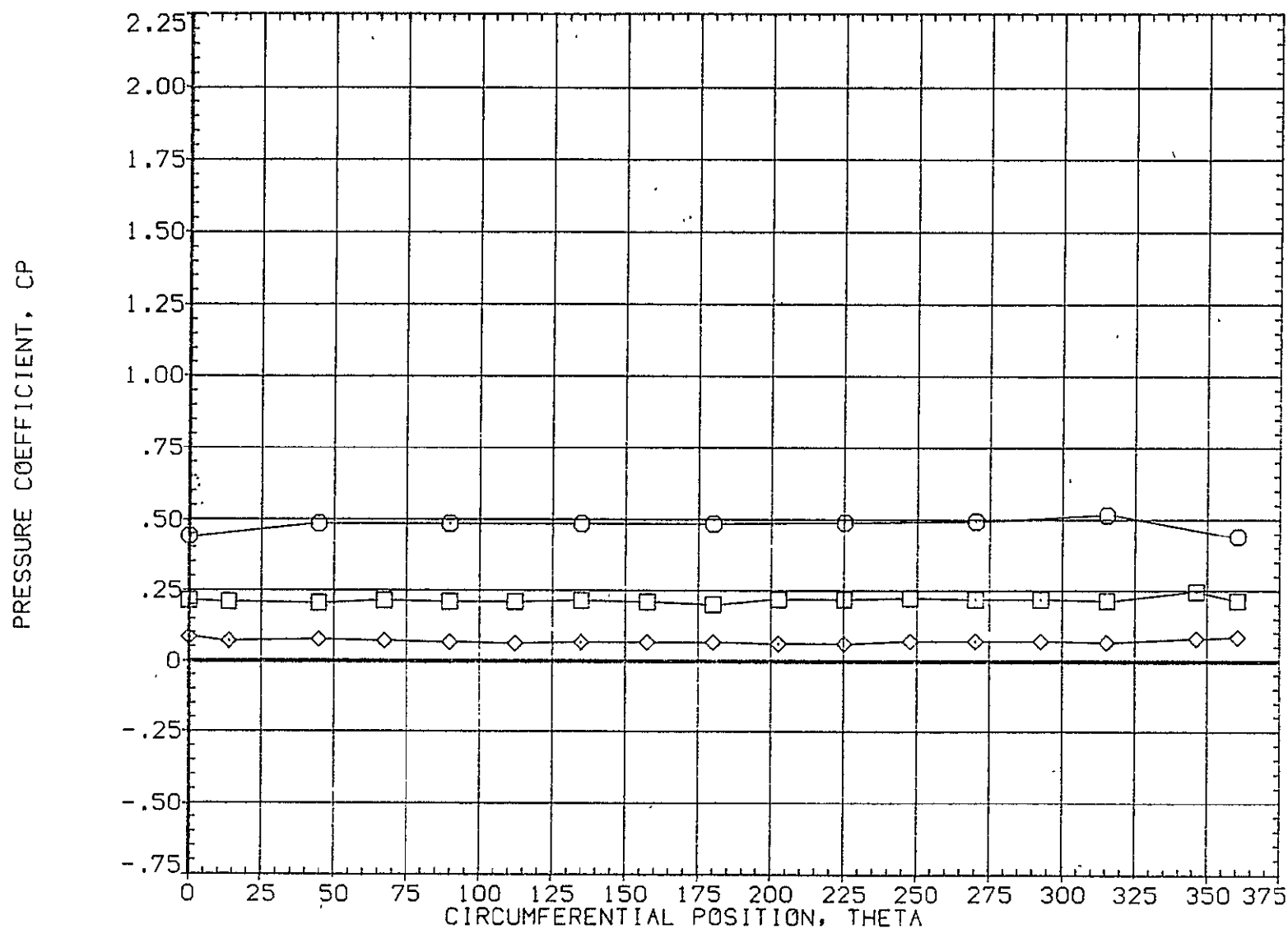


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA MOUNT	OFFSET PHI	PHI	90.000
○	.216	-.280	4.960				
□	.322						
◇	.518						

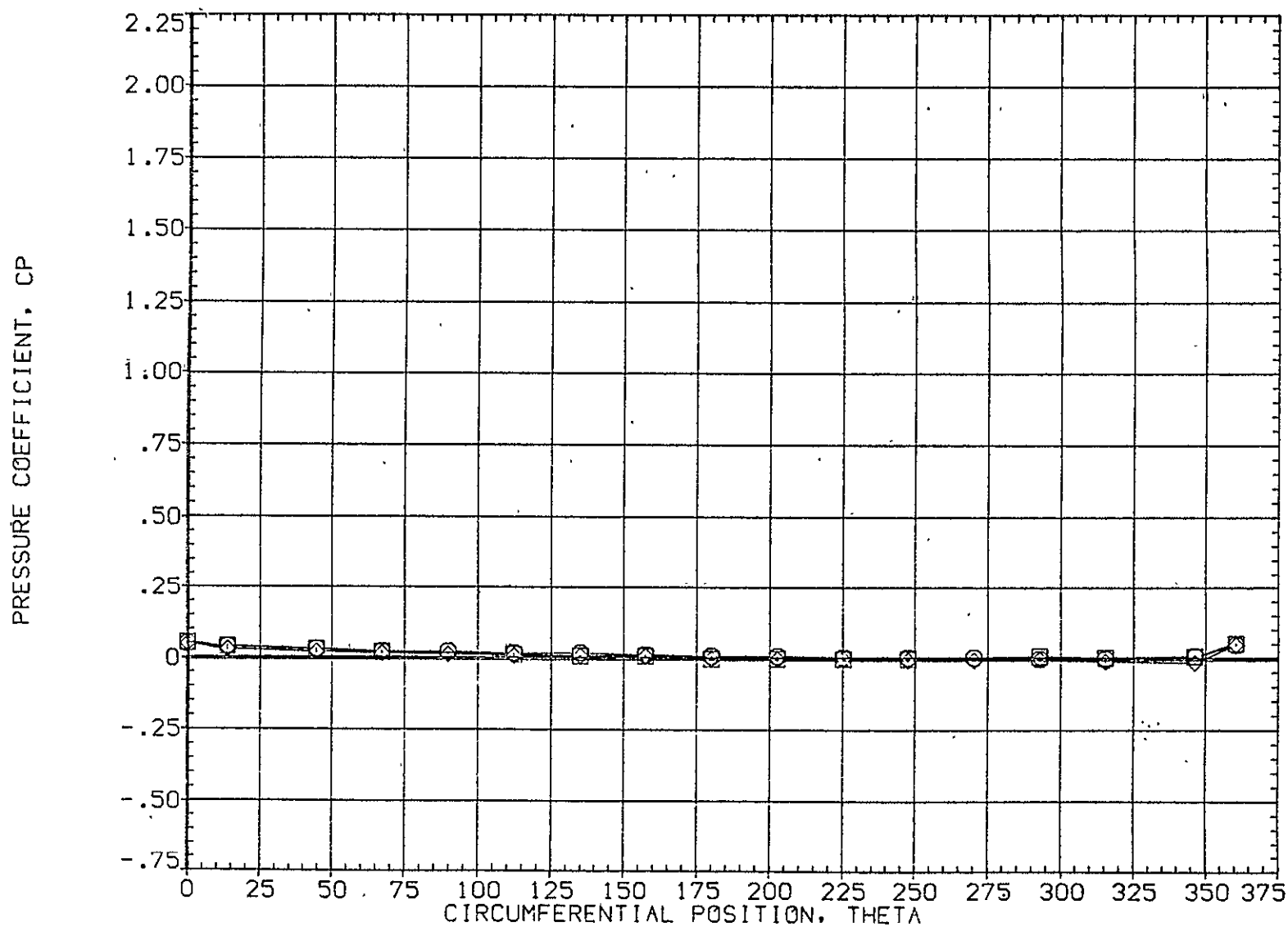


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A013)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-.280	4.960	.000			.000
□	.735			1.000	PHI		90.000
◇	.860						

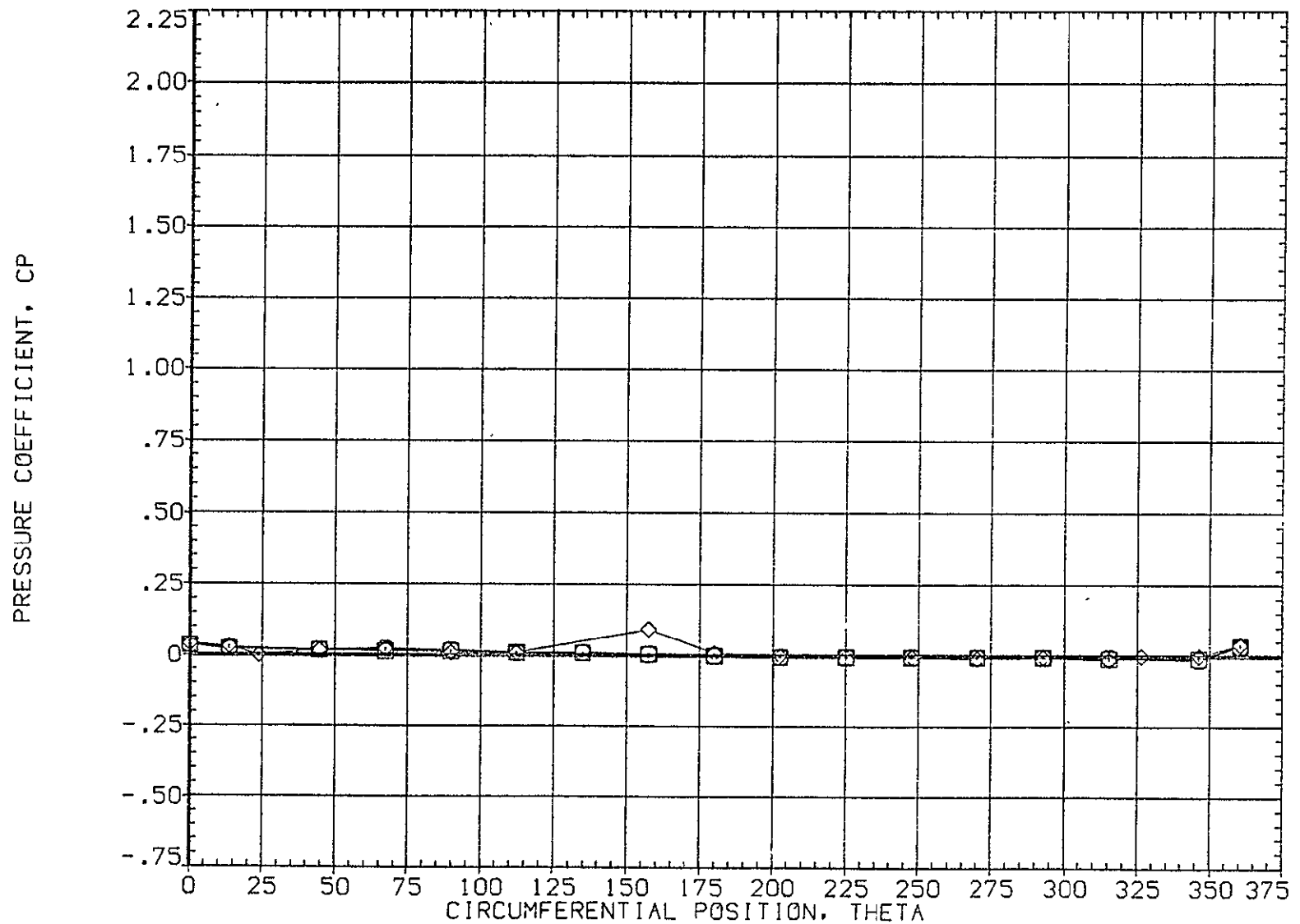


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB.	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	-.280	4.960	MOUNT	.000	PHI	.000
□	.923				1.000		90.000
◇	.954						

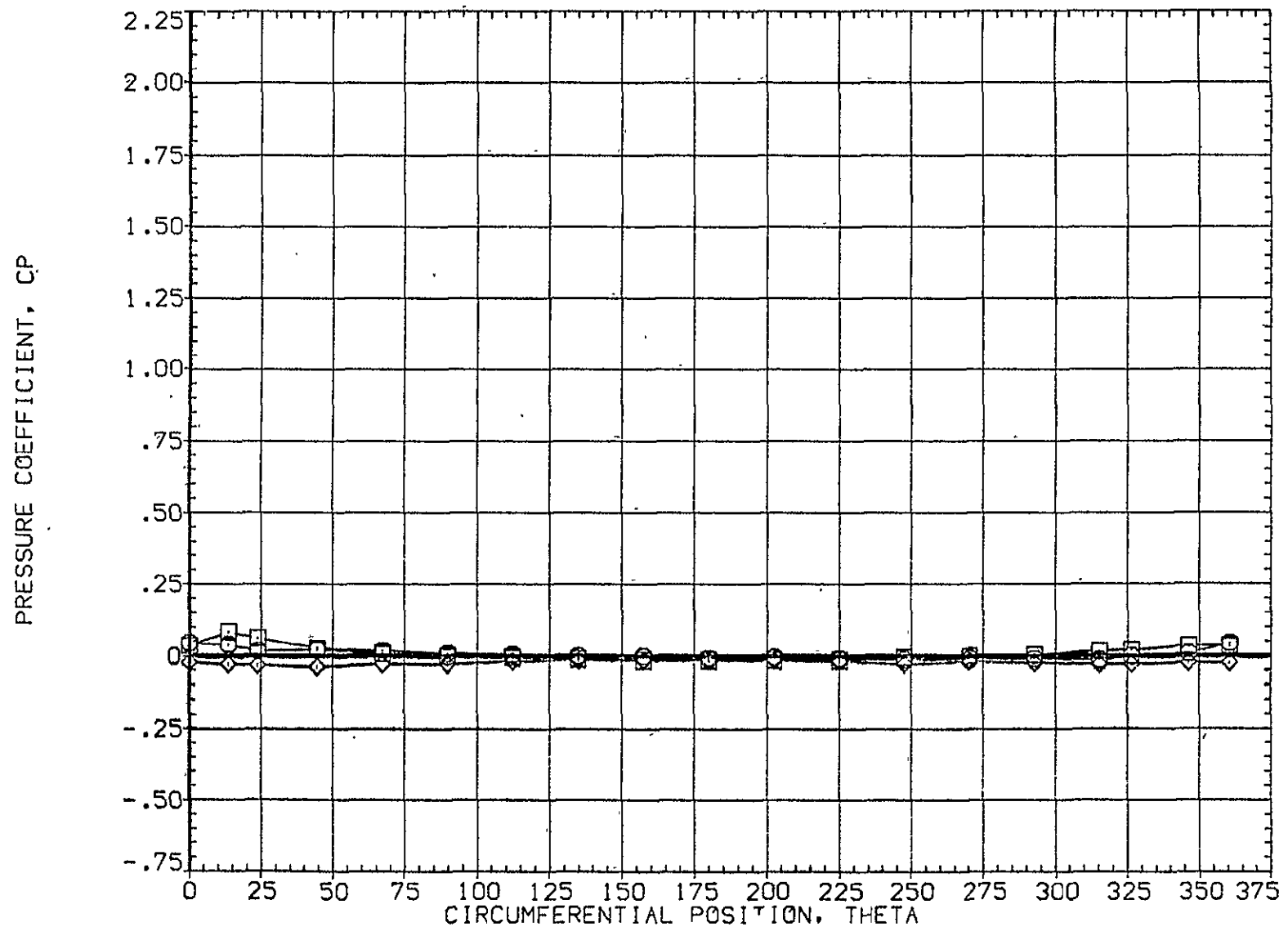


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A014)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	3.730	4.960	MOUNT	.000	PHI	.000
□	.108				1.000		90.000
◇	.162						

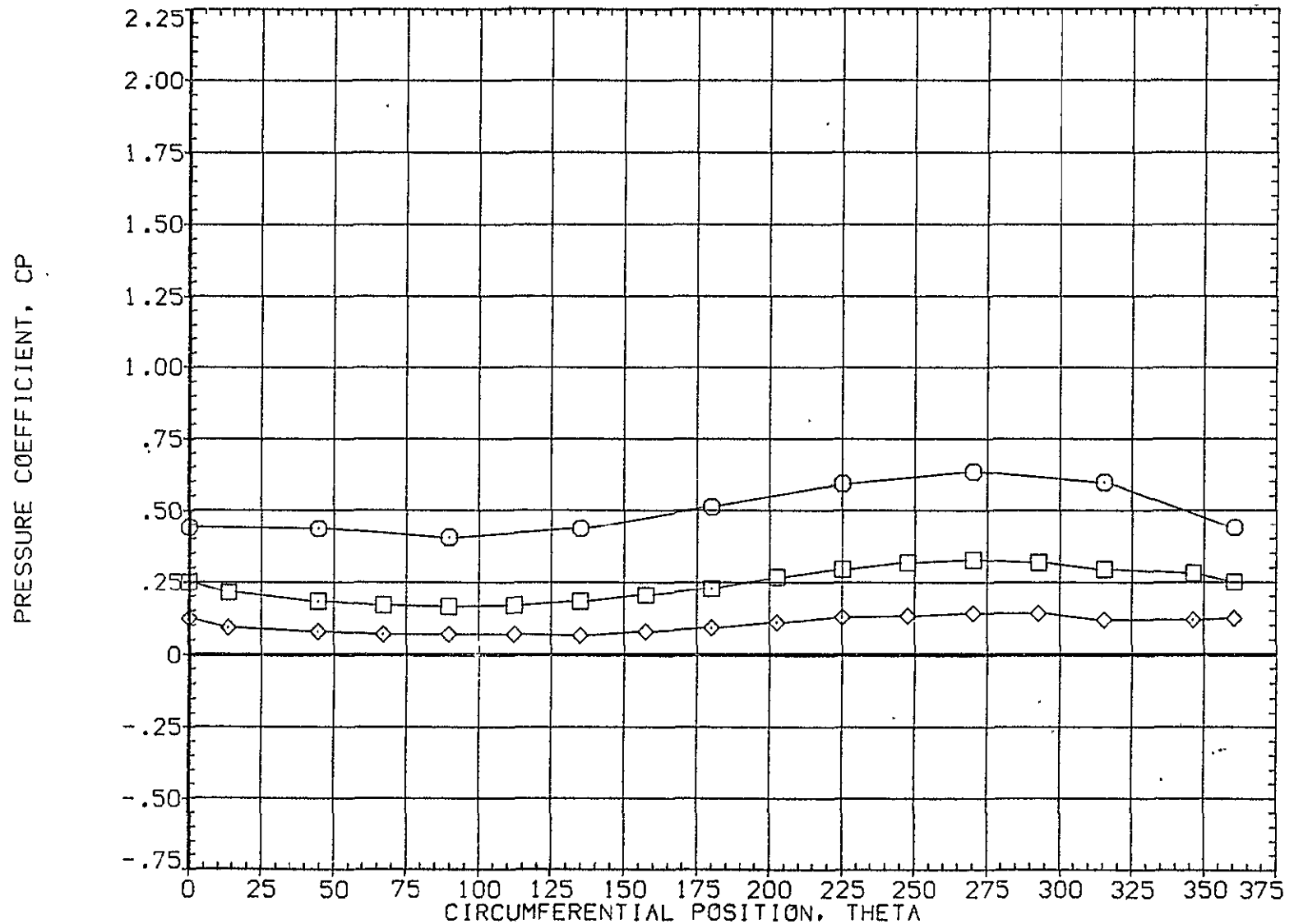


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.216	3.730	4.960	.000	.000		.000
□	.322			1.000			90.000
◇	.518						

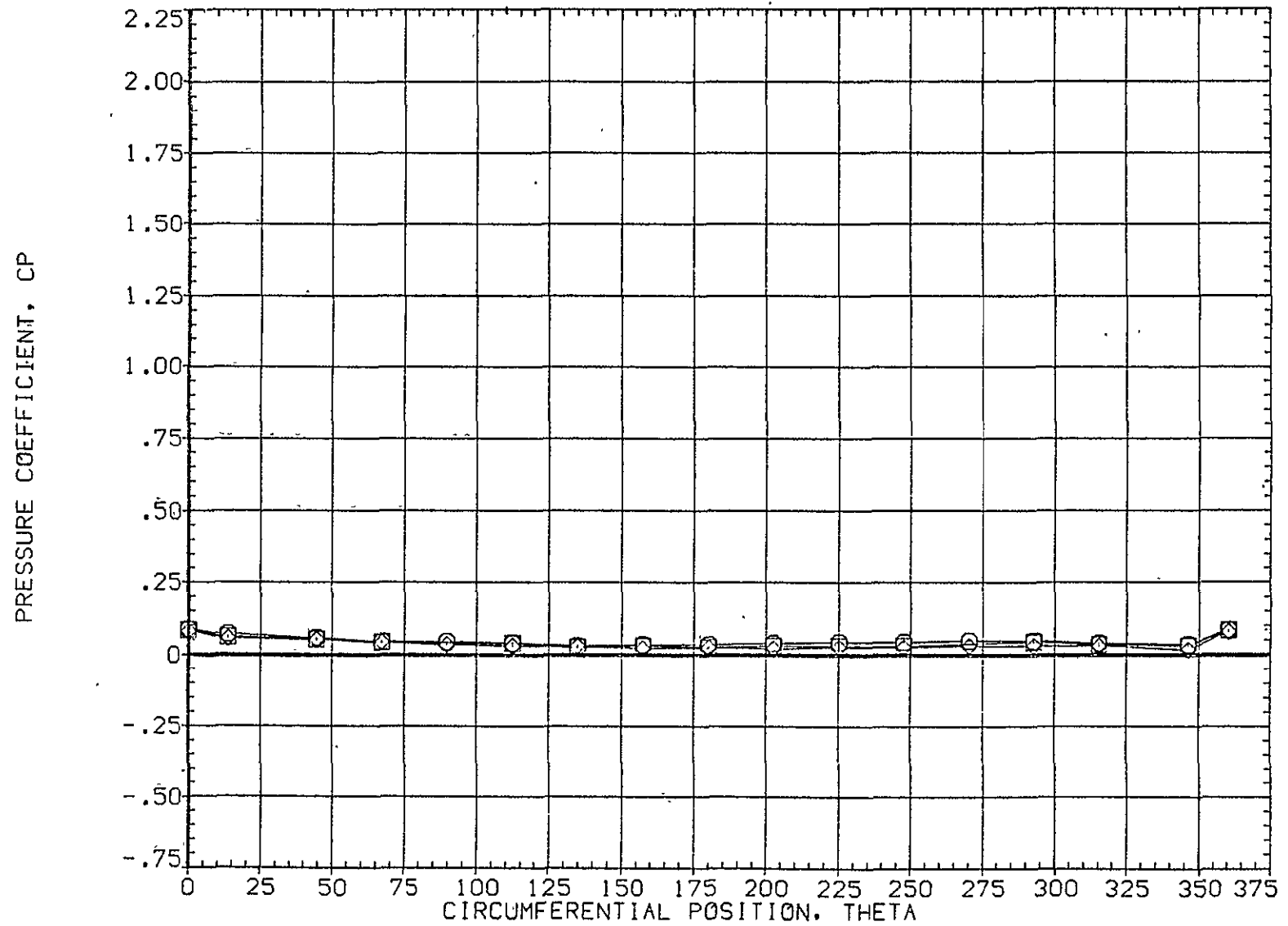


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A014)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	3.730	4.960	.000		.000	
□	.735			1.000	PHI	90.000	
◇	.860						

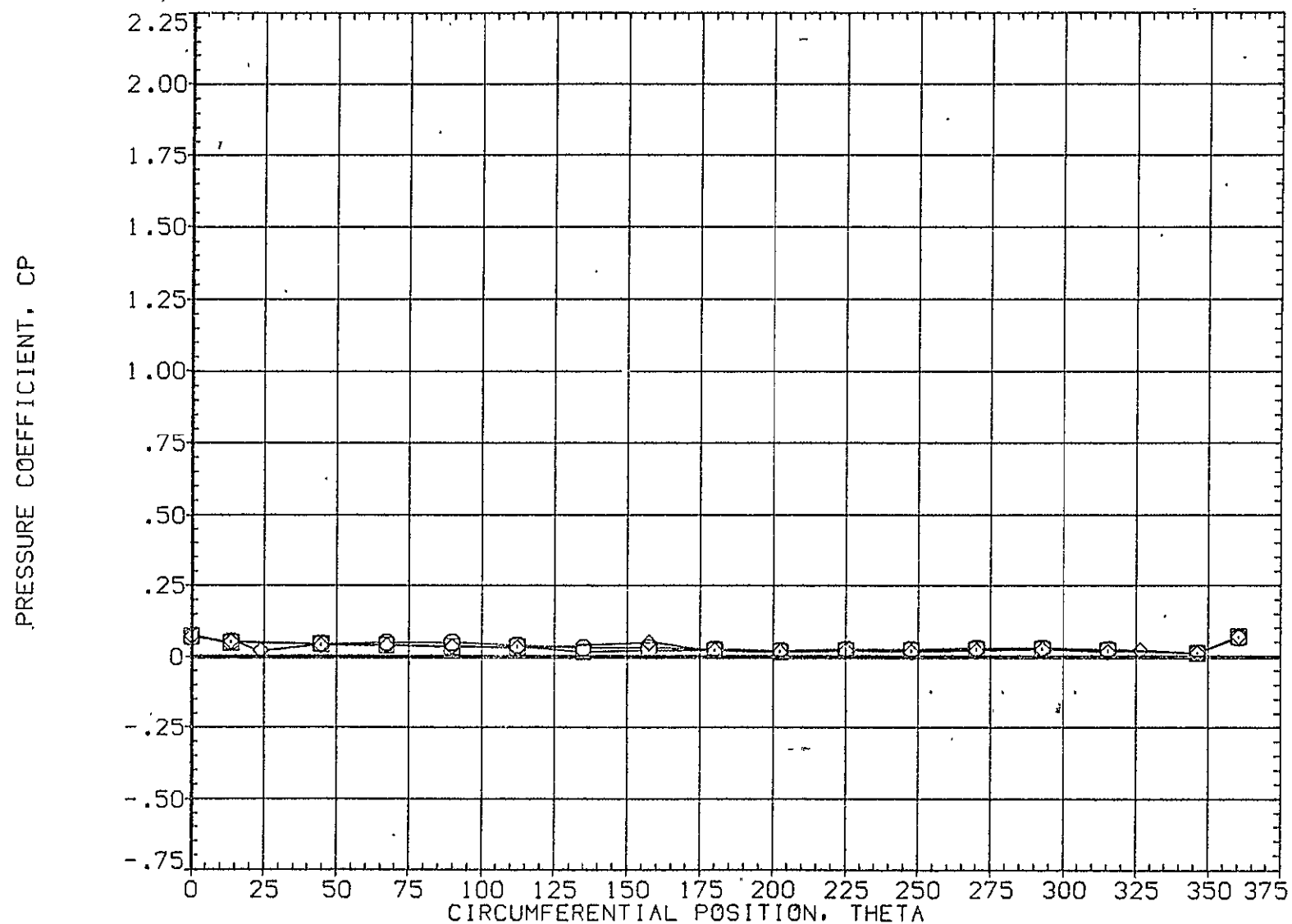


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.892	3.730	4.960	.000		.000	
□	.923			1.000	PHI	90.000	
◇	.954						

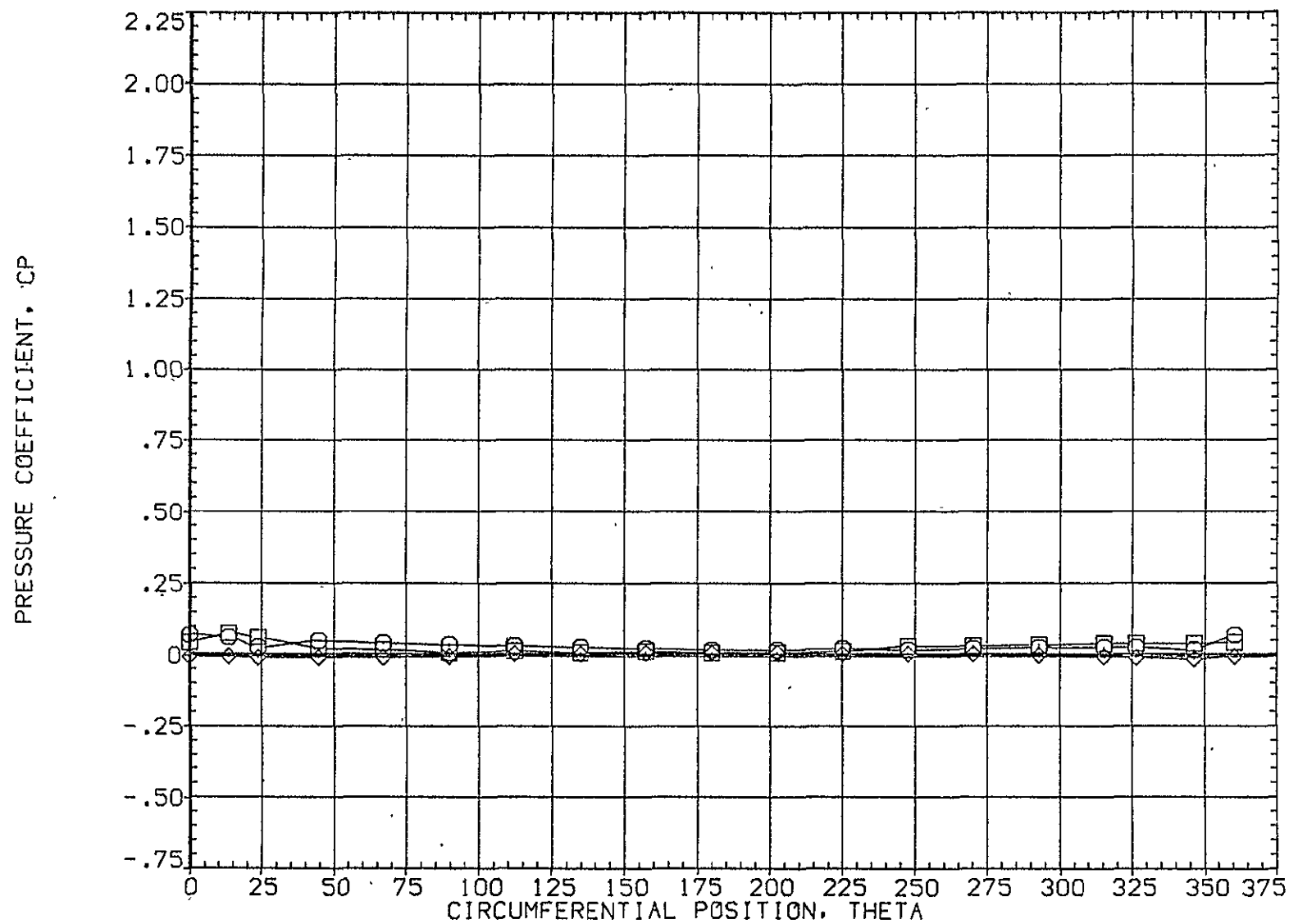


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	7.750	4.960	MOUNT	.000	.000	.000
□	.108				1.000	PHI	90.000
◇	.162						

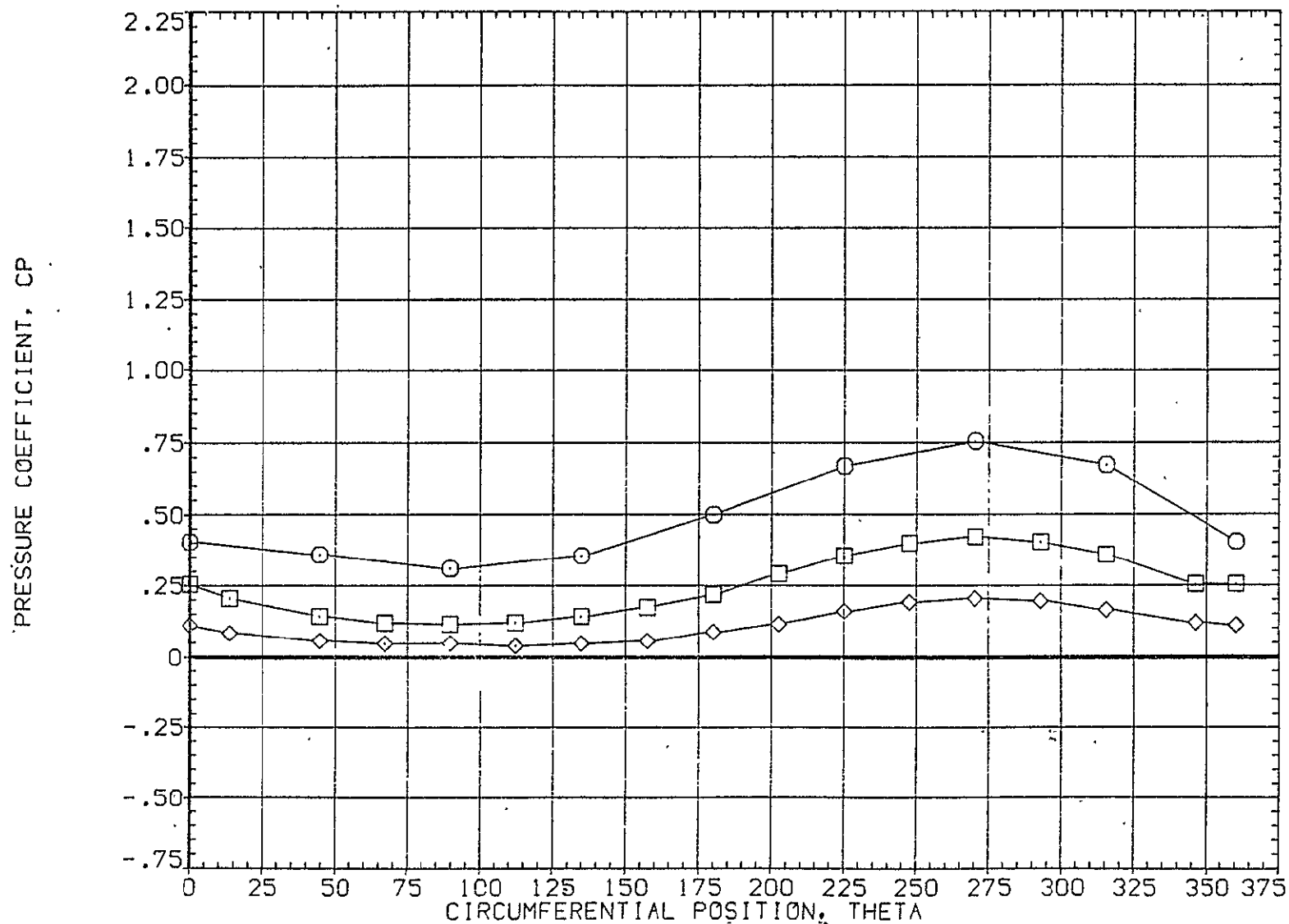


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	PHI 90.000
○	.216	7.750	4.960			
□	.322					
◇	.518					

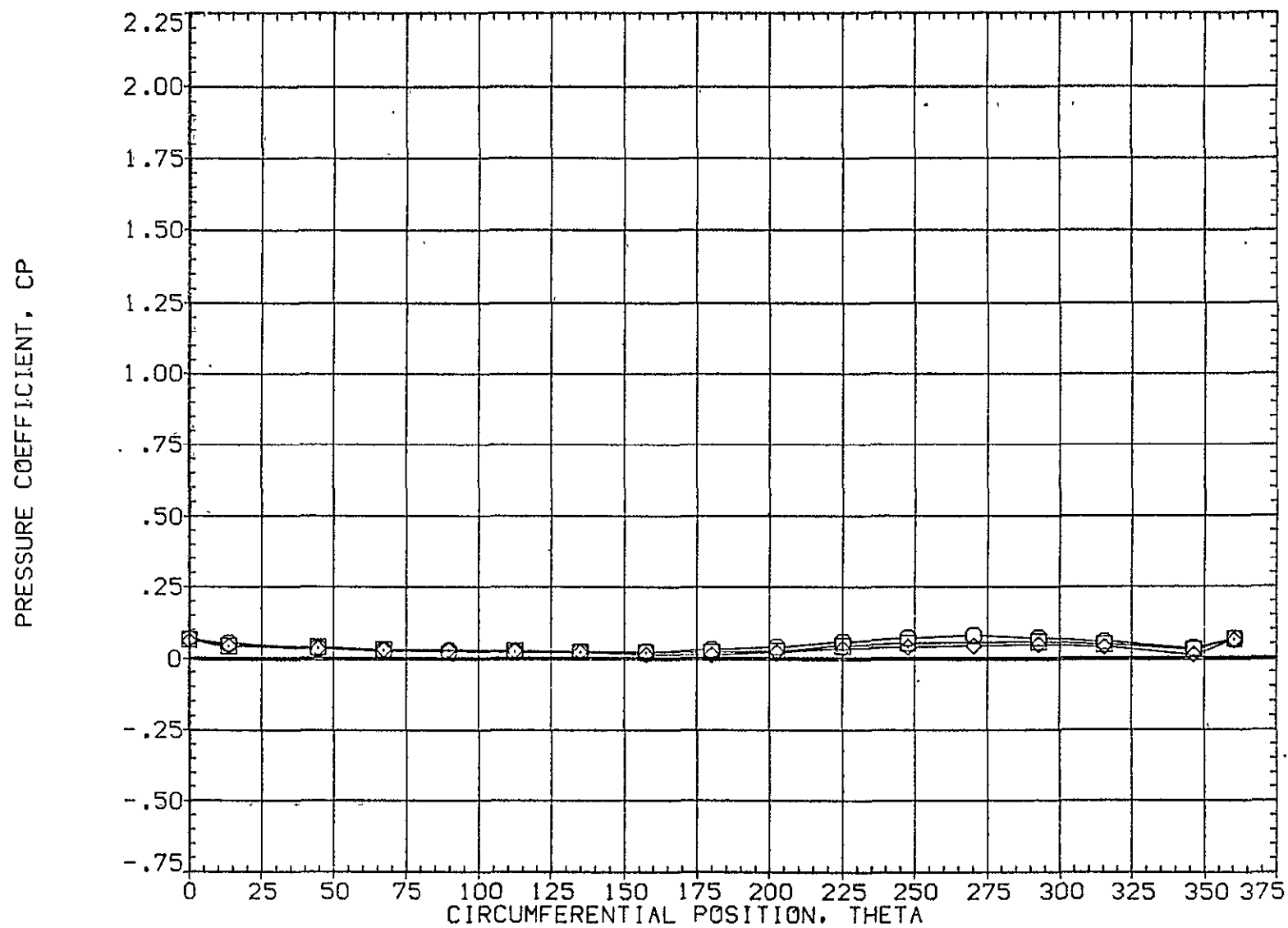


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A015)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	7.750	4.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	90.000
◇	.860						

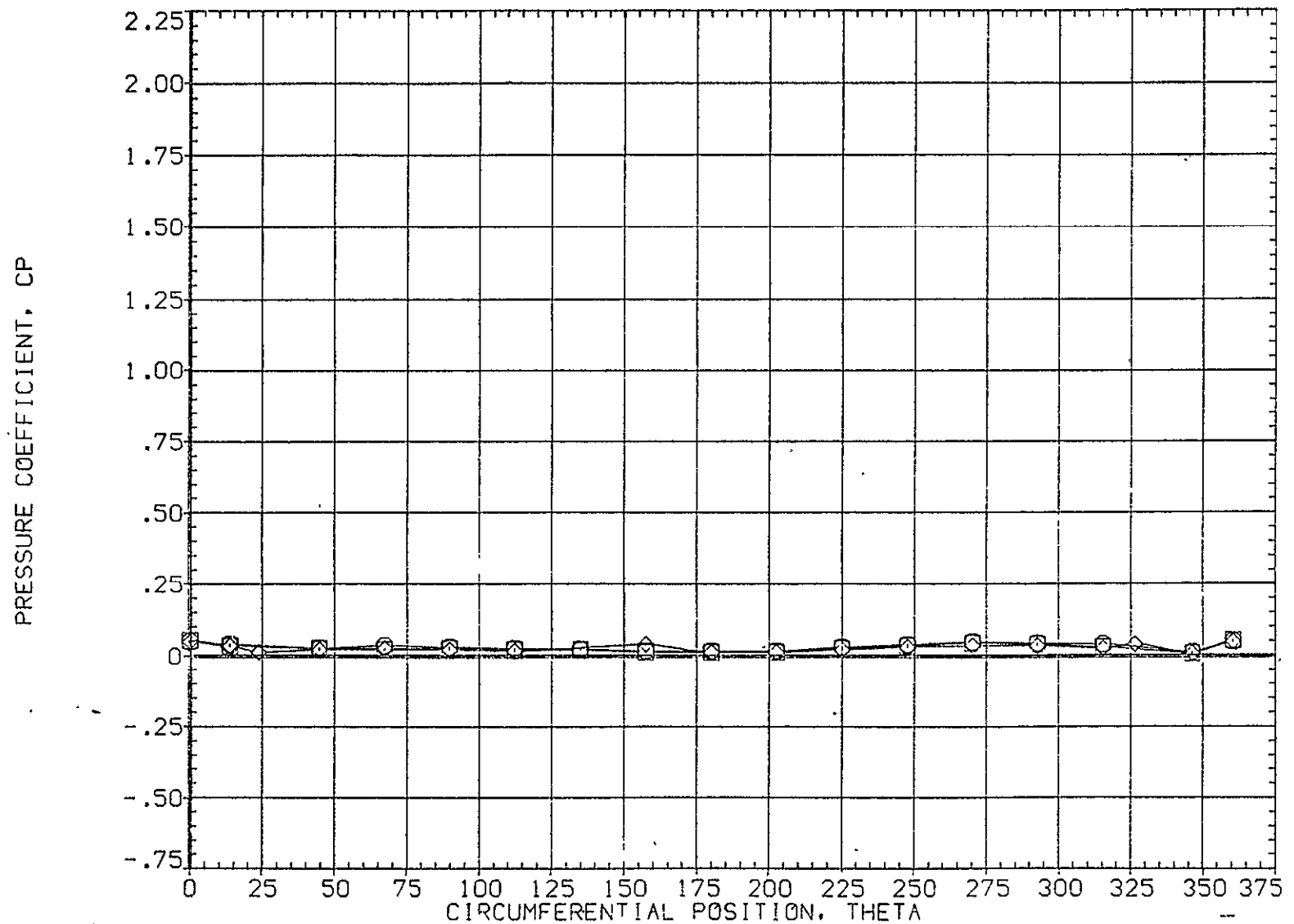


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	7.750	4.960	.000		.000
□	.923			1.000	PHI	90.000
◇	.954					

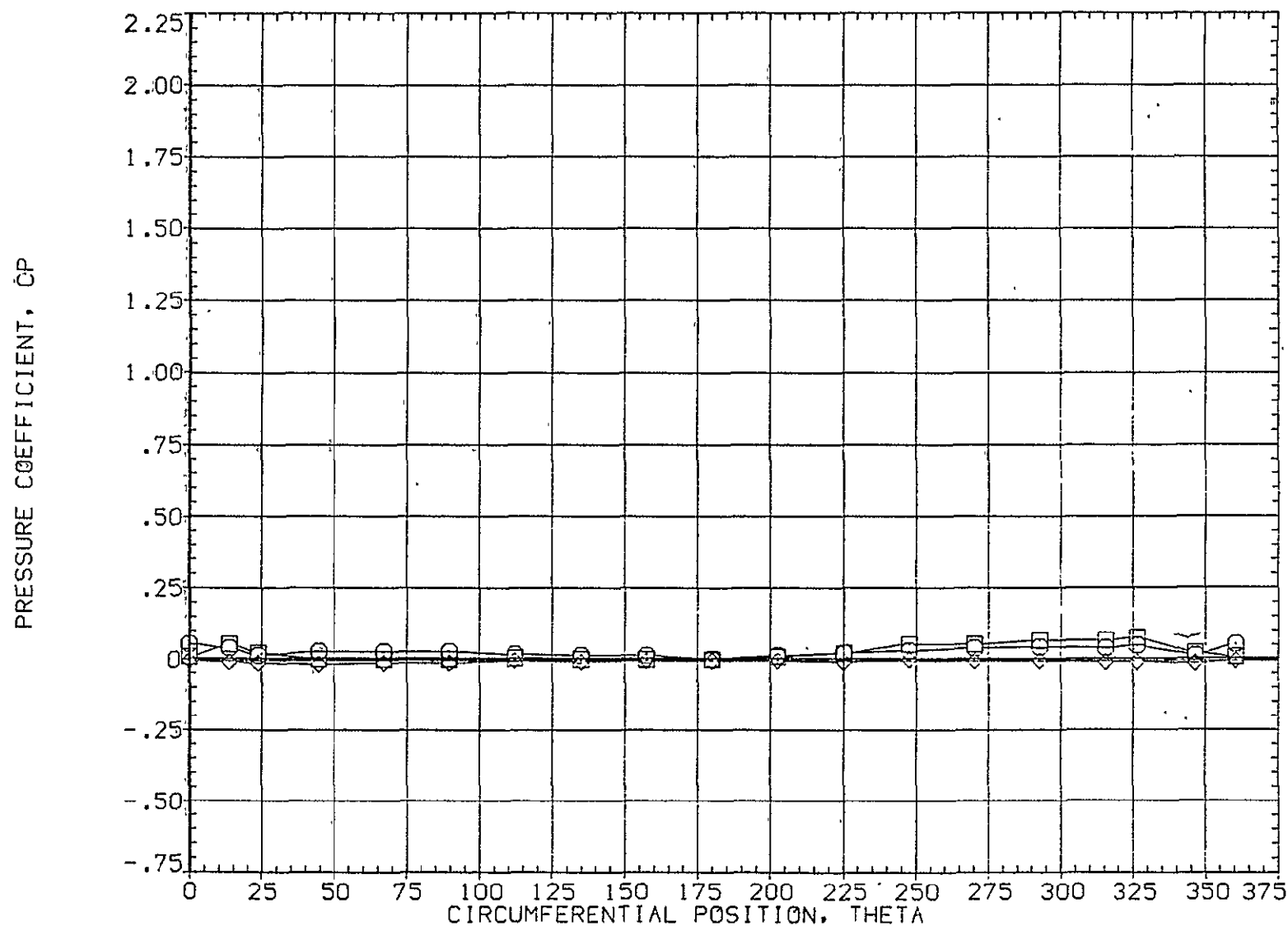


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A016)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	12.450	4.960	.000	OFFSET 20.000
□	.108			1.000	PHI 90.000
◇	.162				

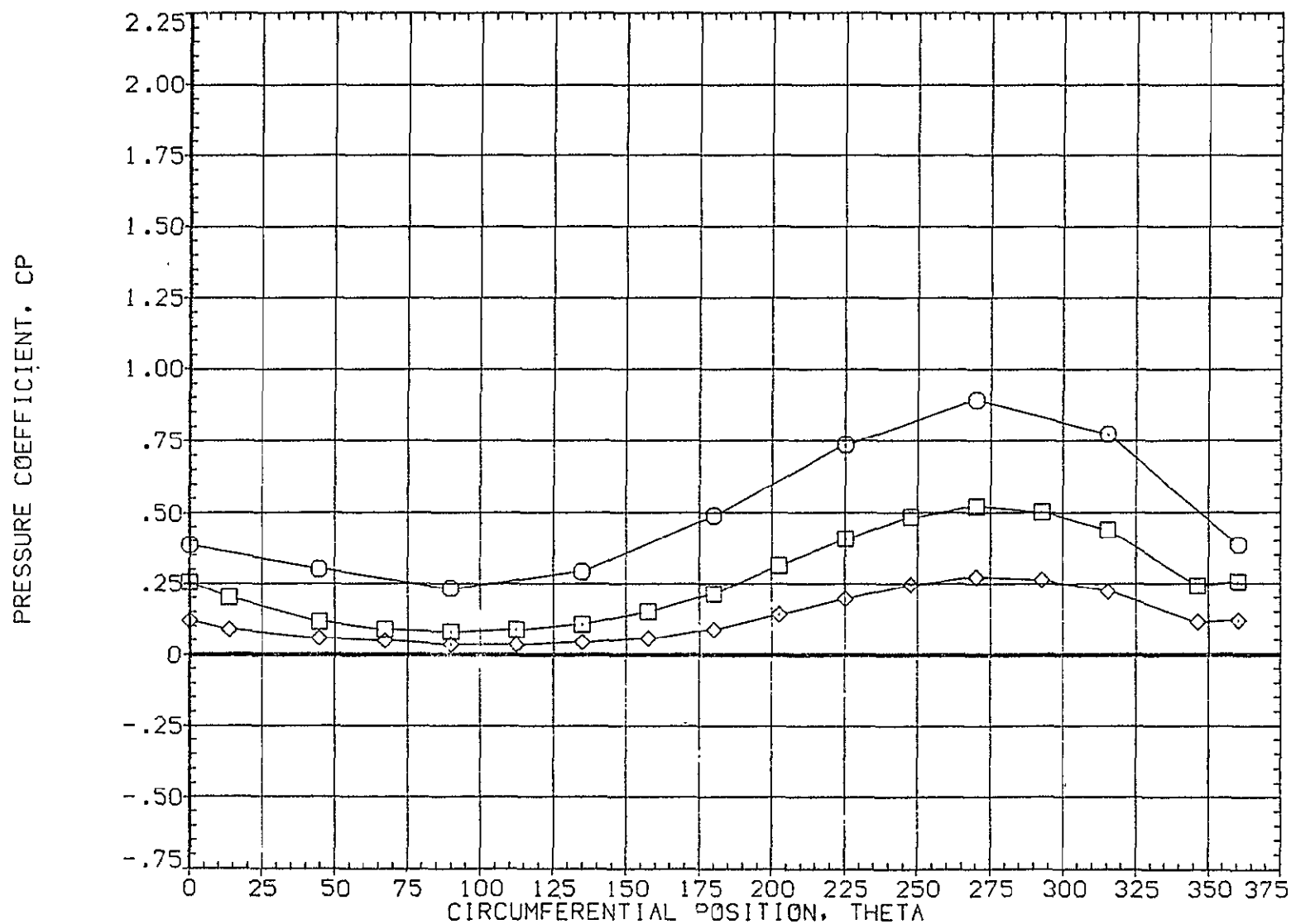


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20,000
○	.216	12.450	4.960	MOUNT	1.000	PHI 90,000
□	.322					
◇	.518					

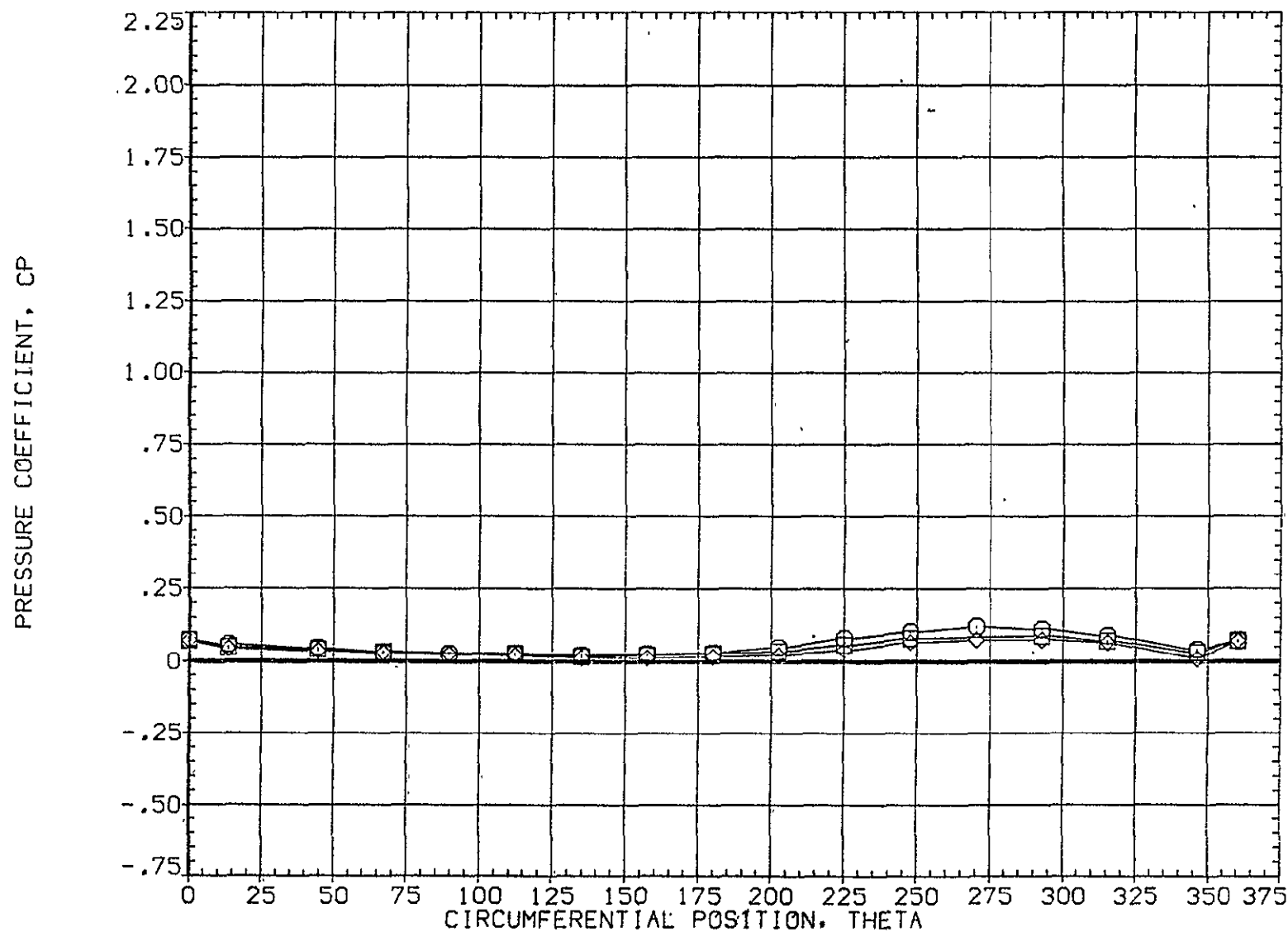


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A016)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.610	12.450	4.960	MOUNT	.000	PHI	90.000
□	.735				1.000		
◇	.860						

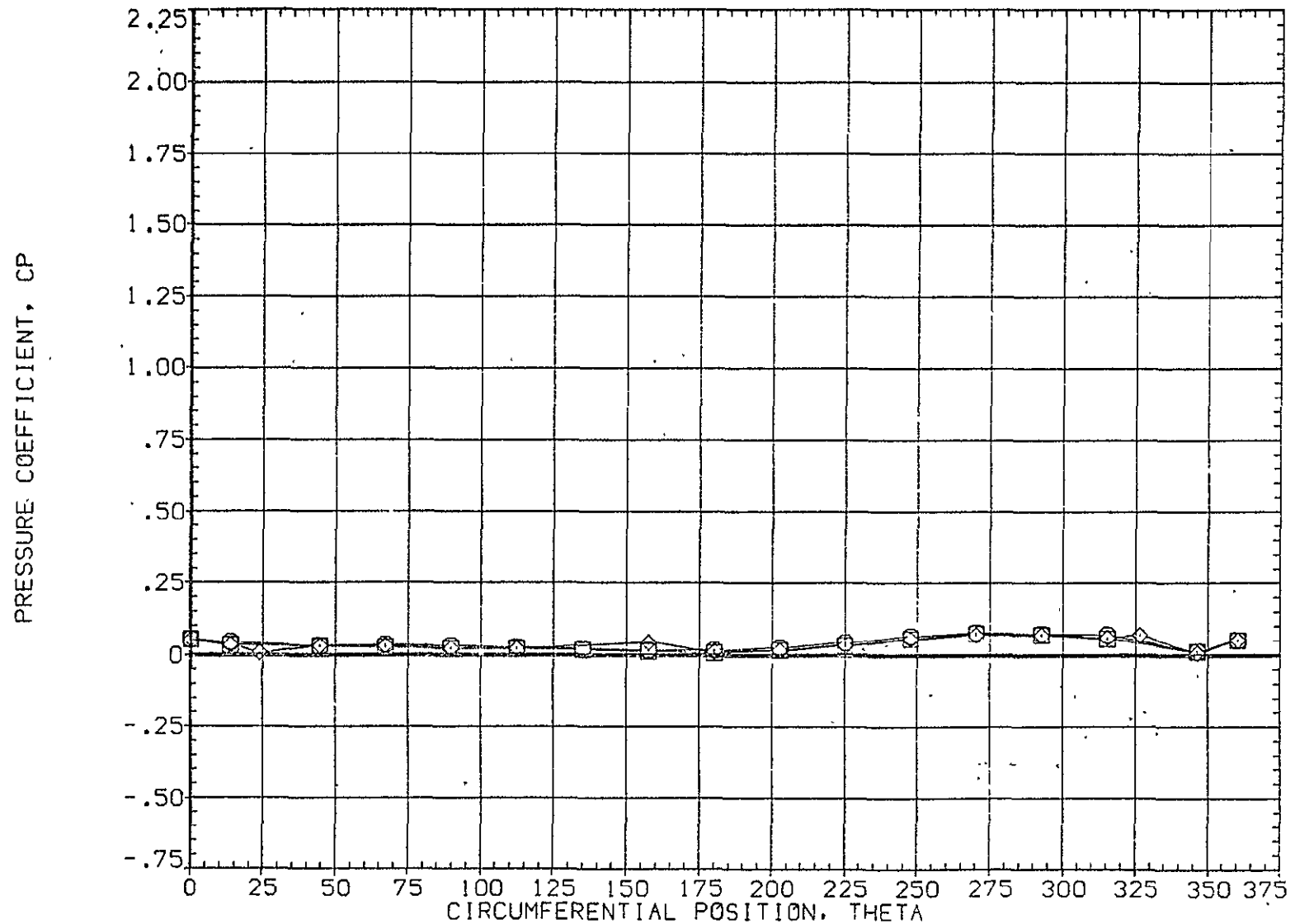


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	12.450	4.960		.000		20.000
□	.923			MOUNT	1.000		90.000
◇	.954						

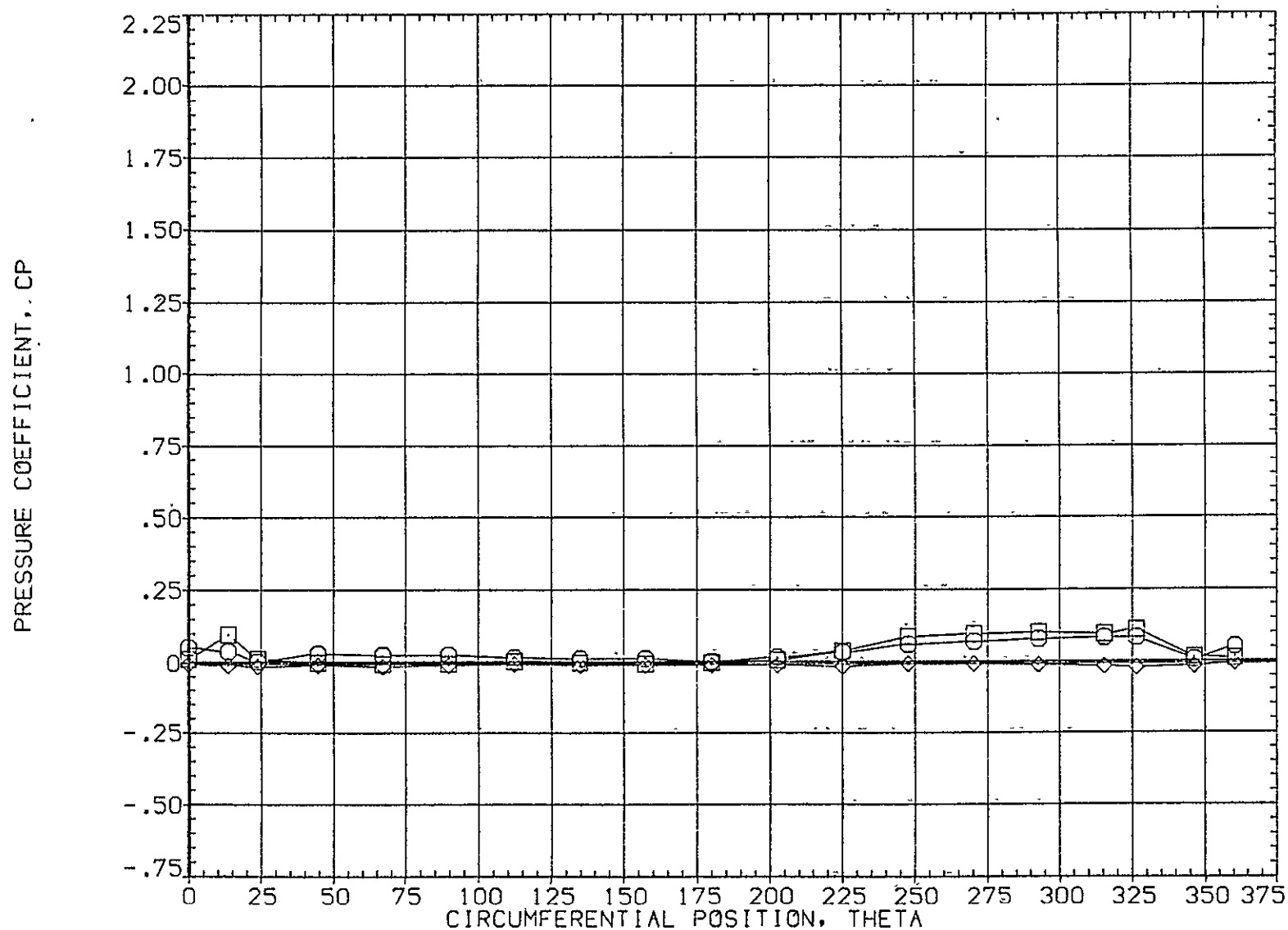


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A017)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	16.470	4.960	MOUNT	.000	OFFSET	20.000
□	.108				1.000	PHI	90.000
◇	.162						

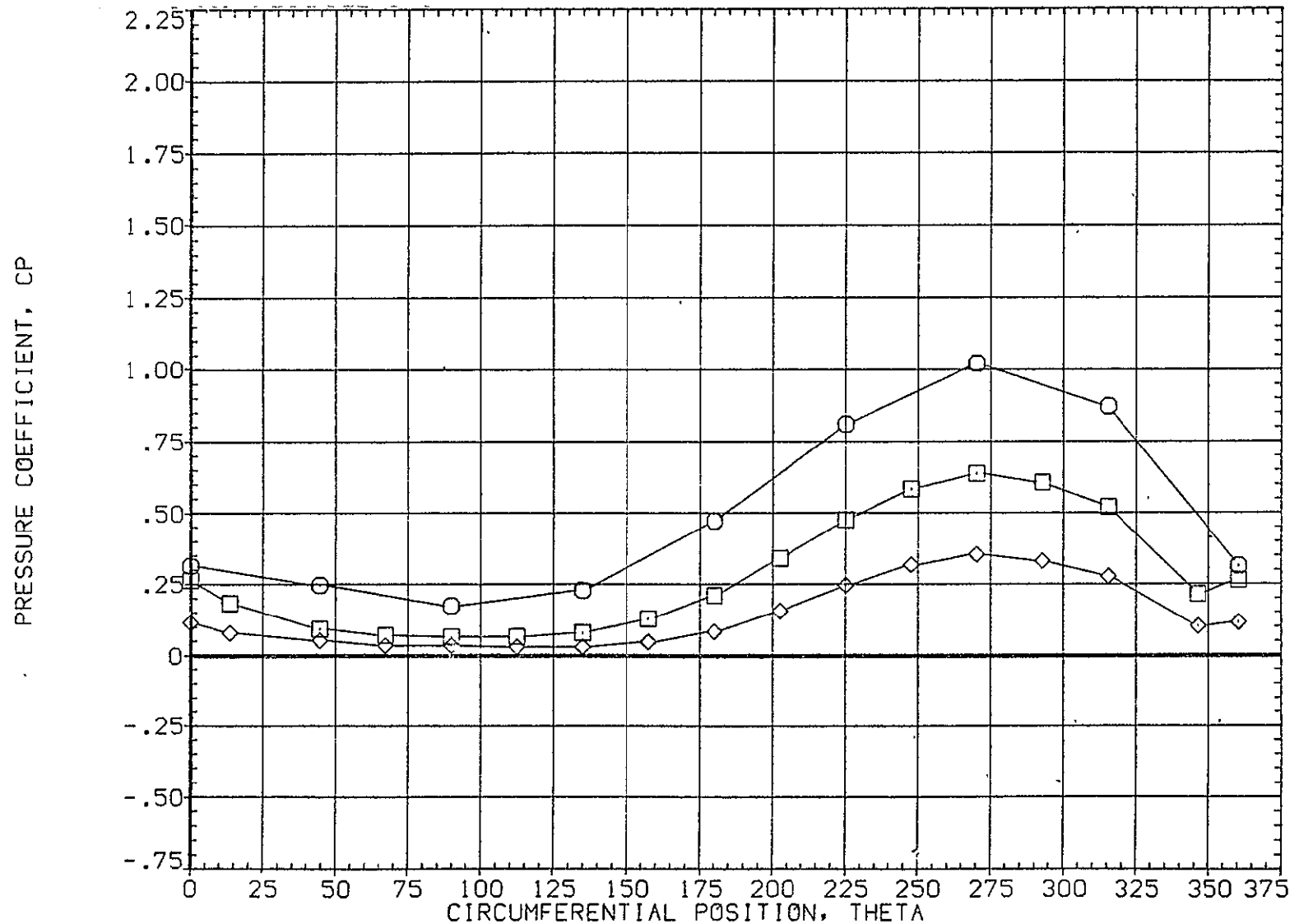


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	16.470	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	90.000

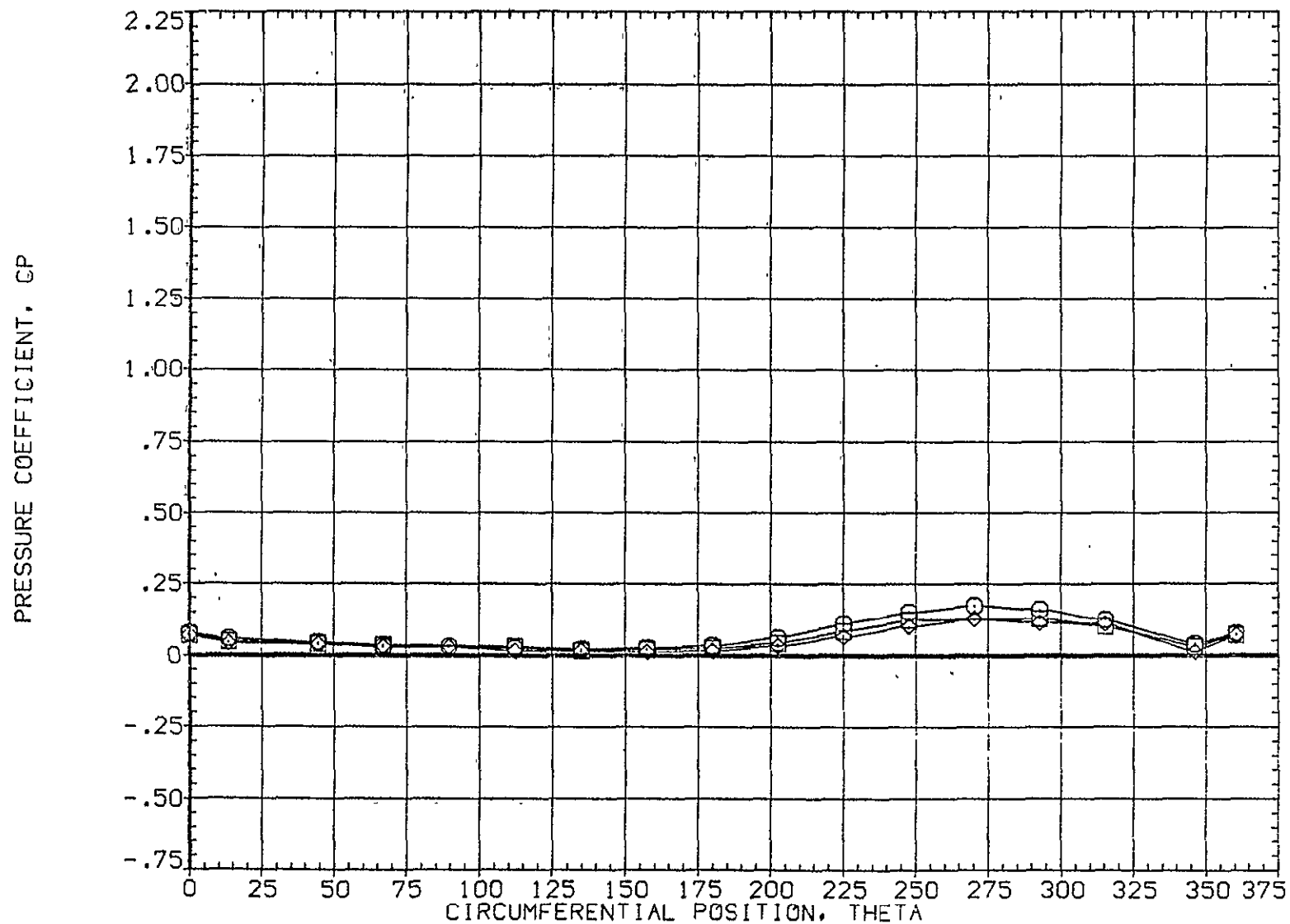


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A017)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES				
	○	.610	16.470	4.960	BETA	.000	OFFSET	20.000
	□	.735			MOUNT	1.000	PHI	90.000
◇	.860							

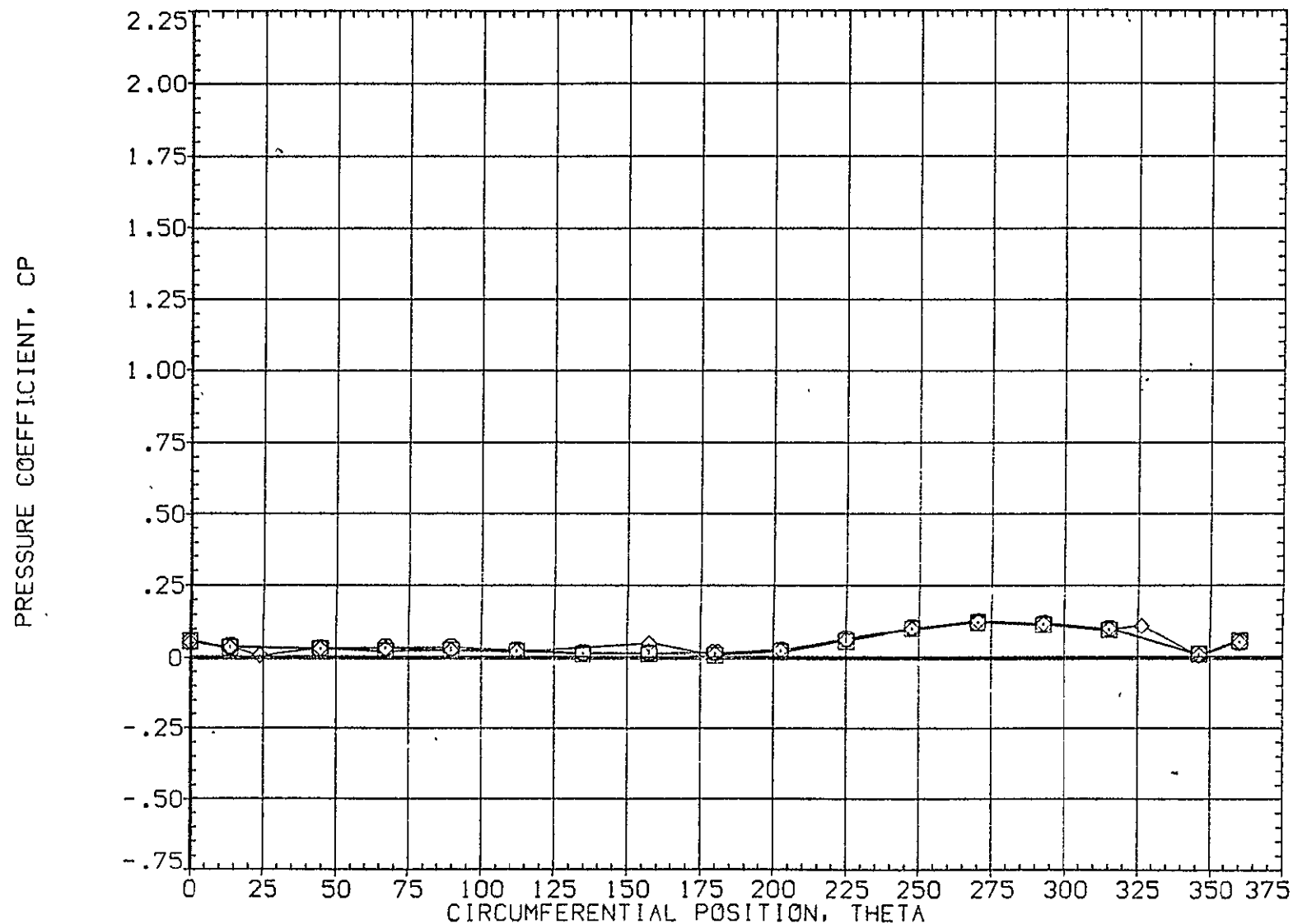


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	16.470	4.960		.000		20.000
□	.923			MOUNT	1.000		90.000
◇	.954						

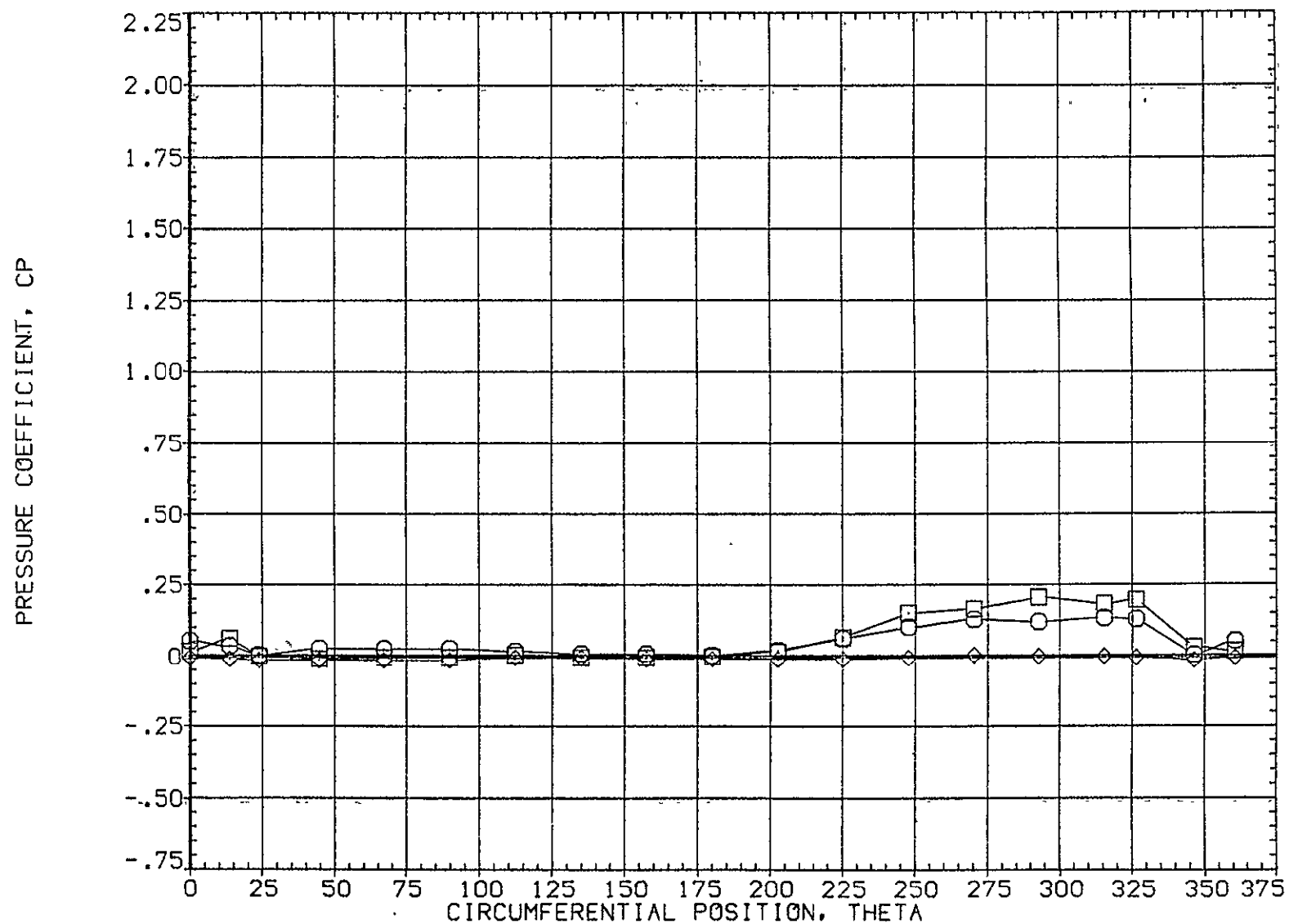


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A018)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	20.490	4.960	MOUNT	.000	OFFSET	20.000
□	.108				1.000	PHI	90.000
◇	.162						

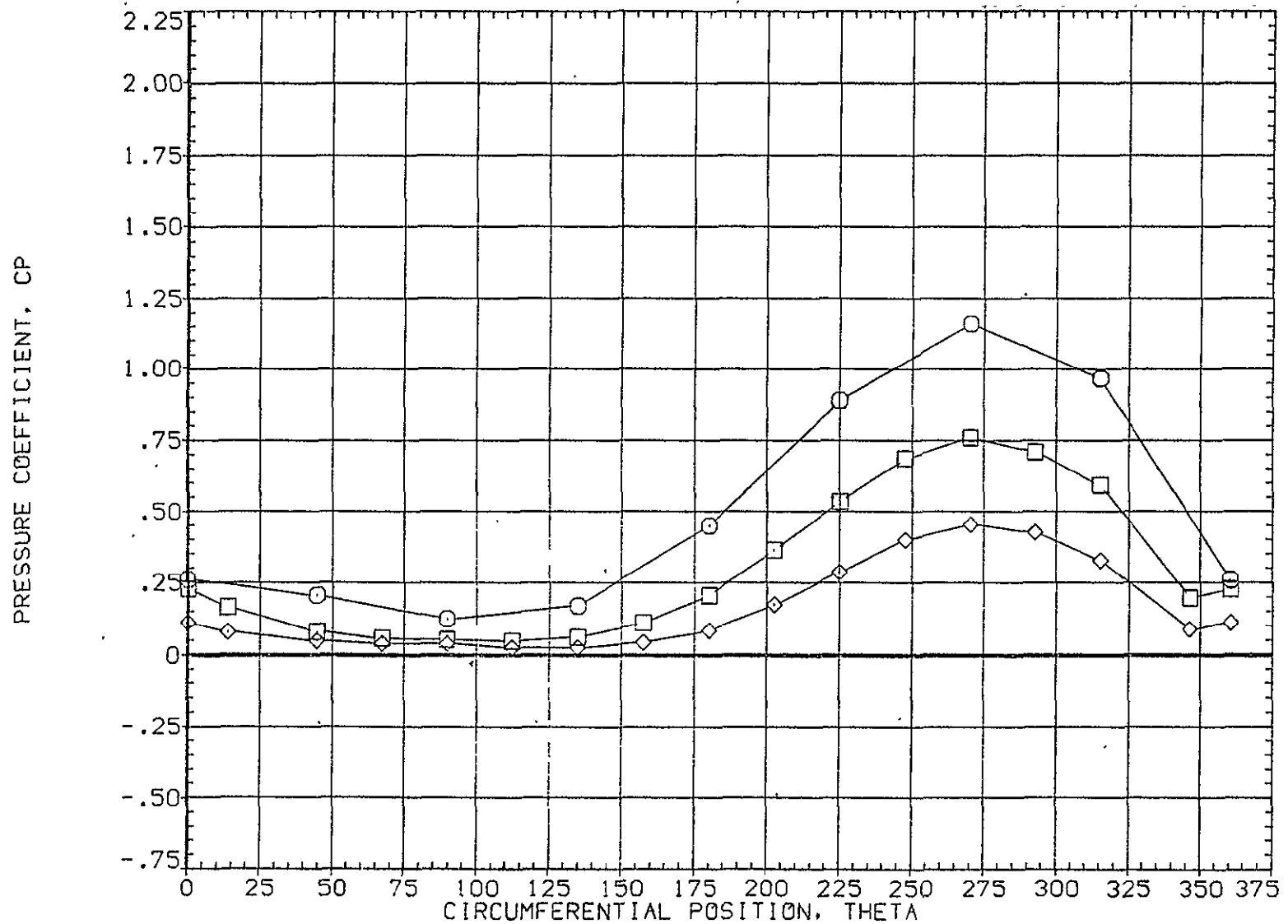


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

ALPHA

MACH

.216

20.490

4.960

.322

.518

BETA

PARAMETRIC VALUES

MOUNT

.000

OFFSET

20.000

1.000

PHI

90.000

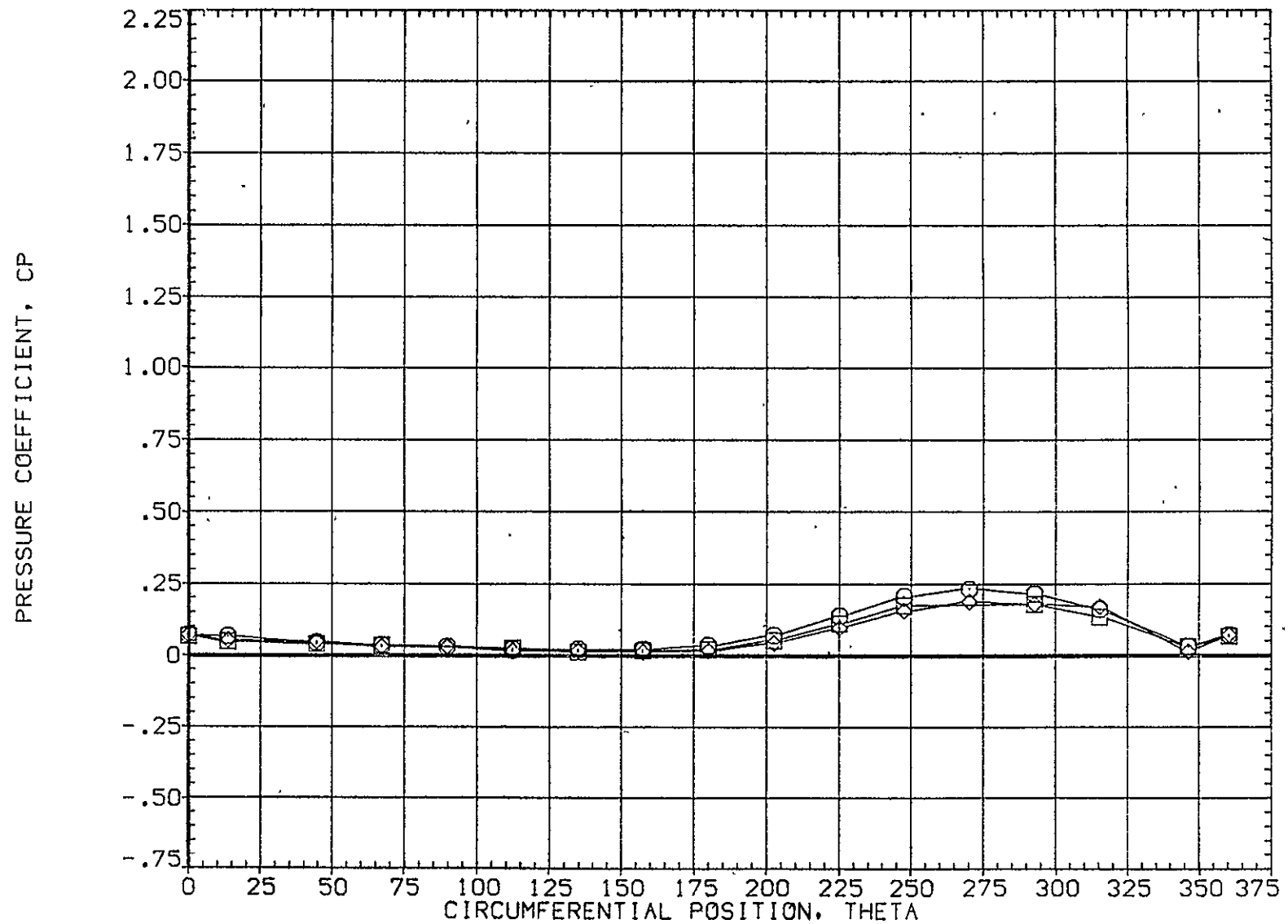


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A018)

SYMBOL
○
□
◇

X/LB
.610
.735
.860

ALPHA
20.490

MACH
4.960

BETA
MOUNT

PARAMETRIC VALUES
.000 OFFSET 20.000
1.000 PHI 90.000

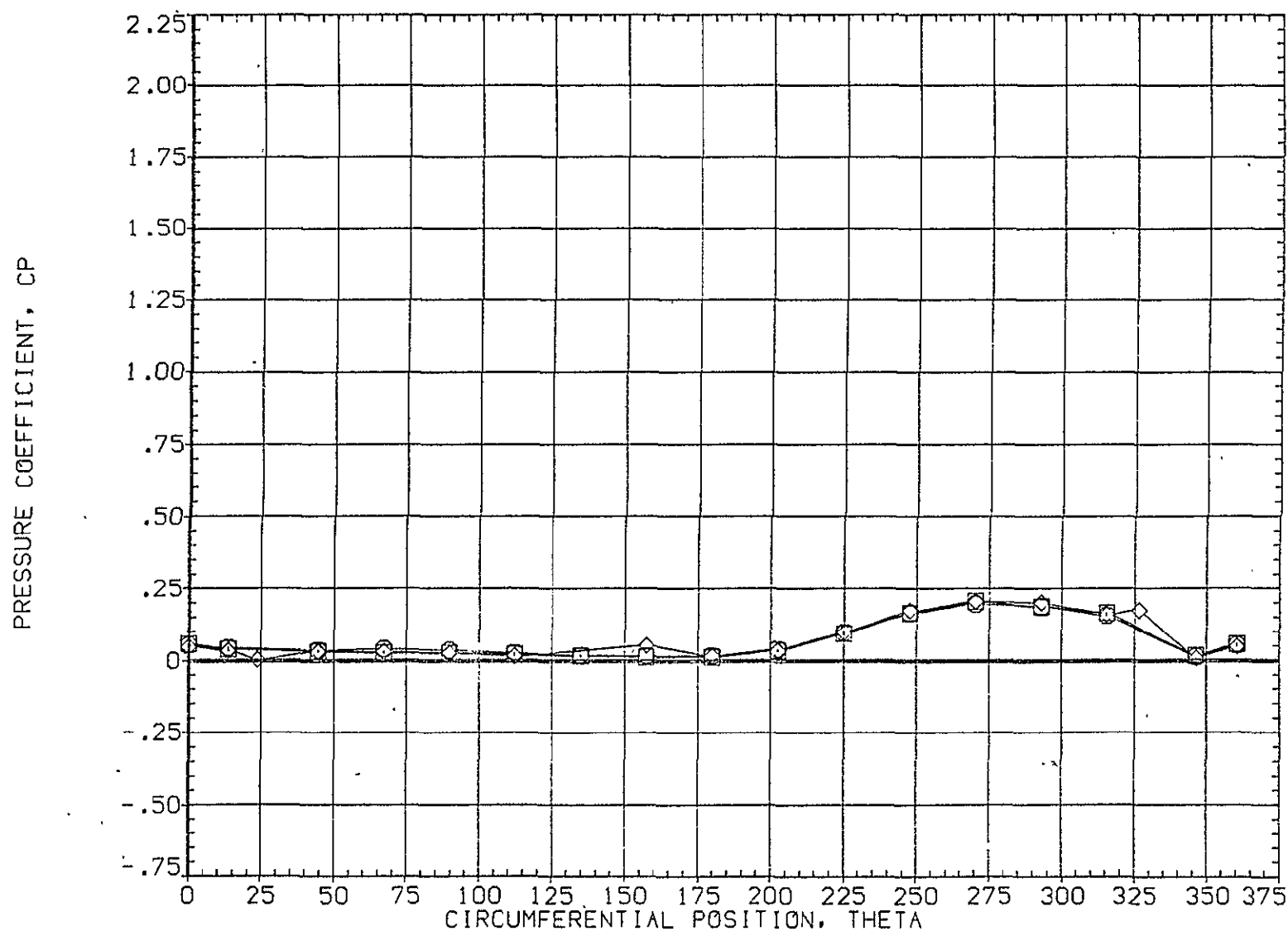


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA MOUNT	.000 1.000	OFFSET PHI	20.000 90.000
○	.892	20.490	4.960				
□	.923						
◇	.954						

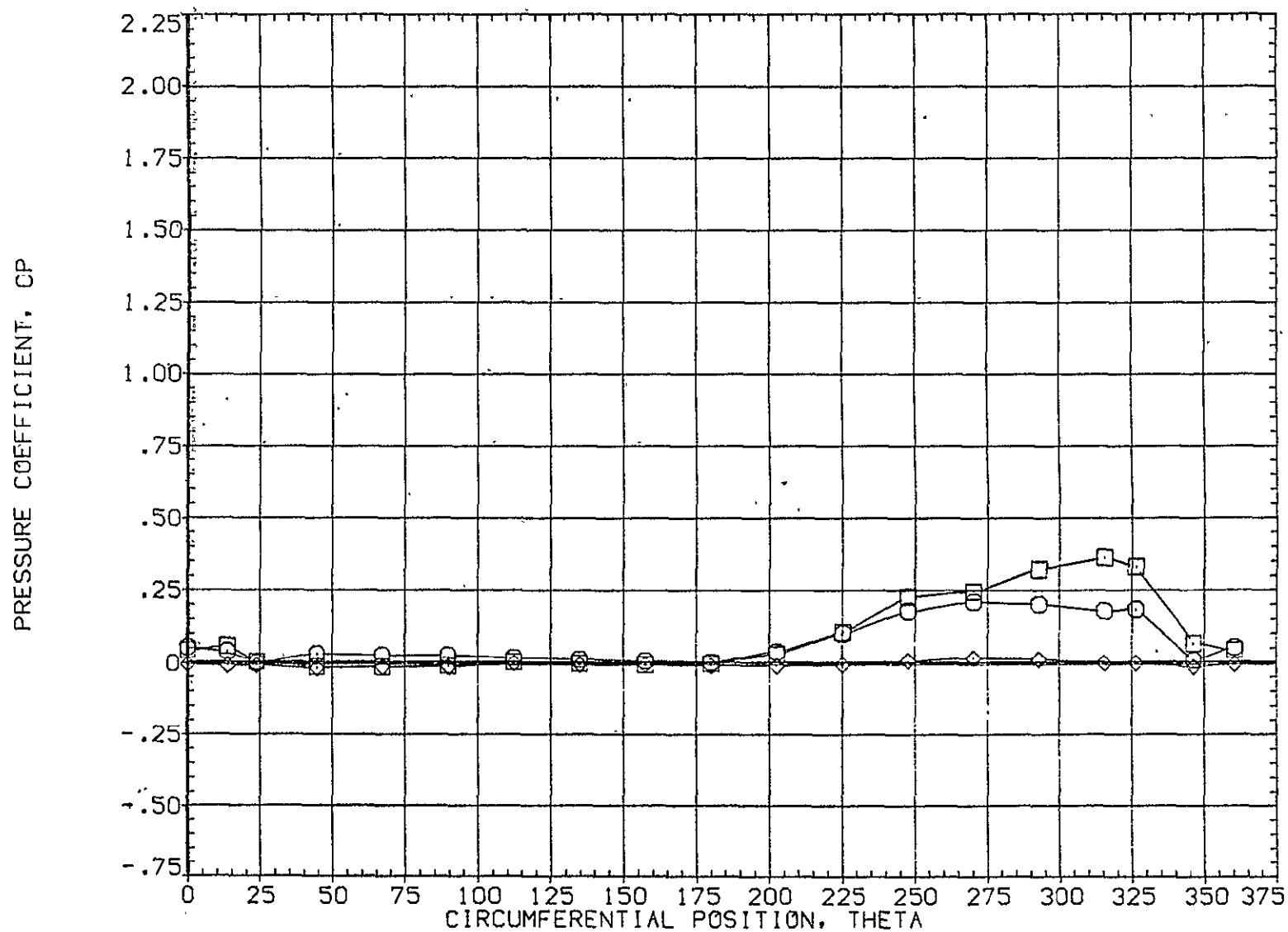


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	24.510	4.960	MOUNT	.000	PHI	90.000
□	.108						
◇	.162						

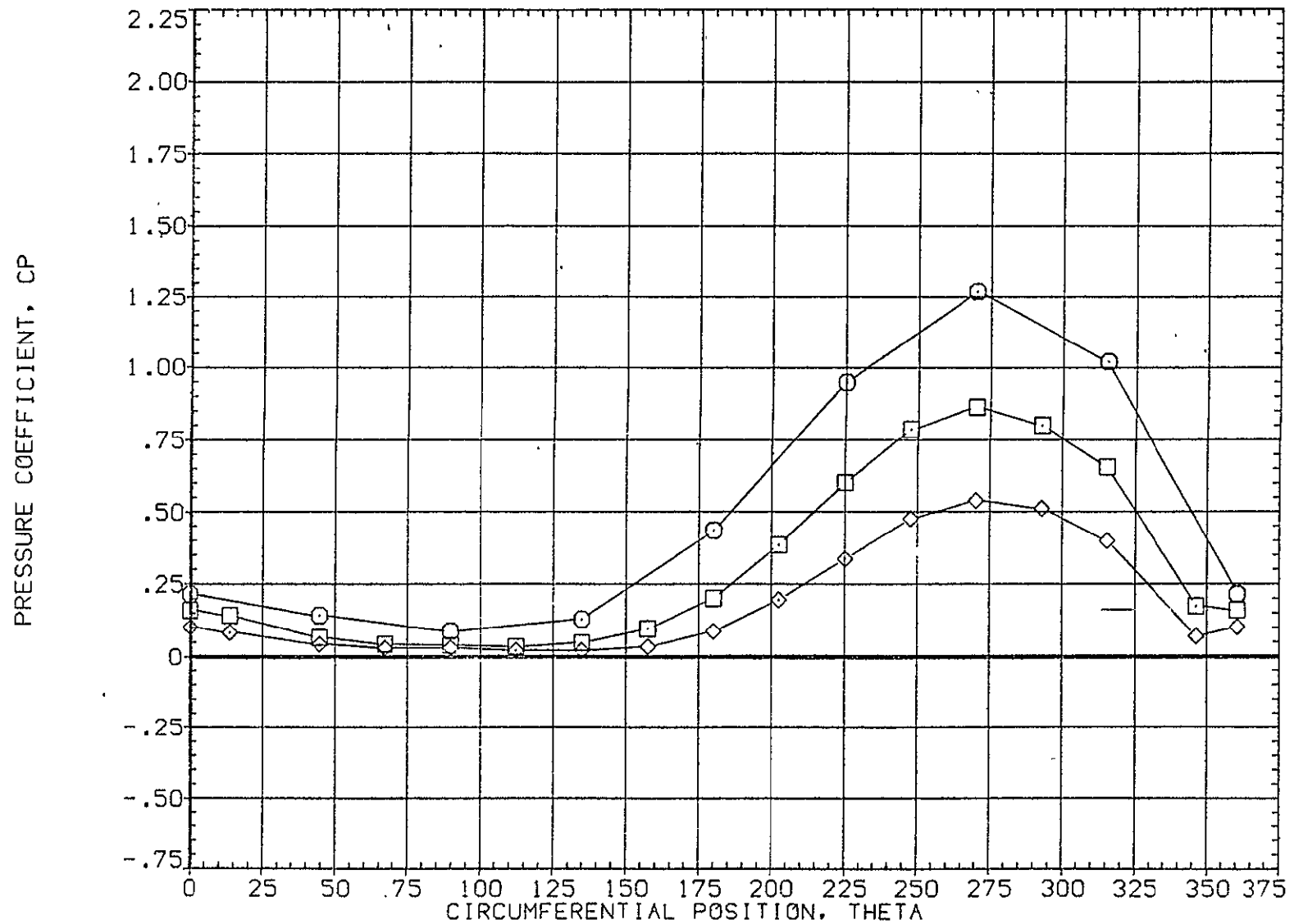


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

○
□
◇.216
.322
.518

24.510

4.960

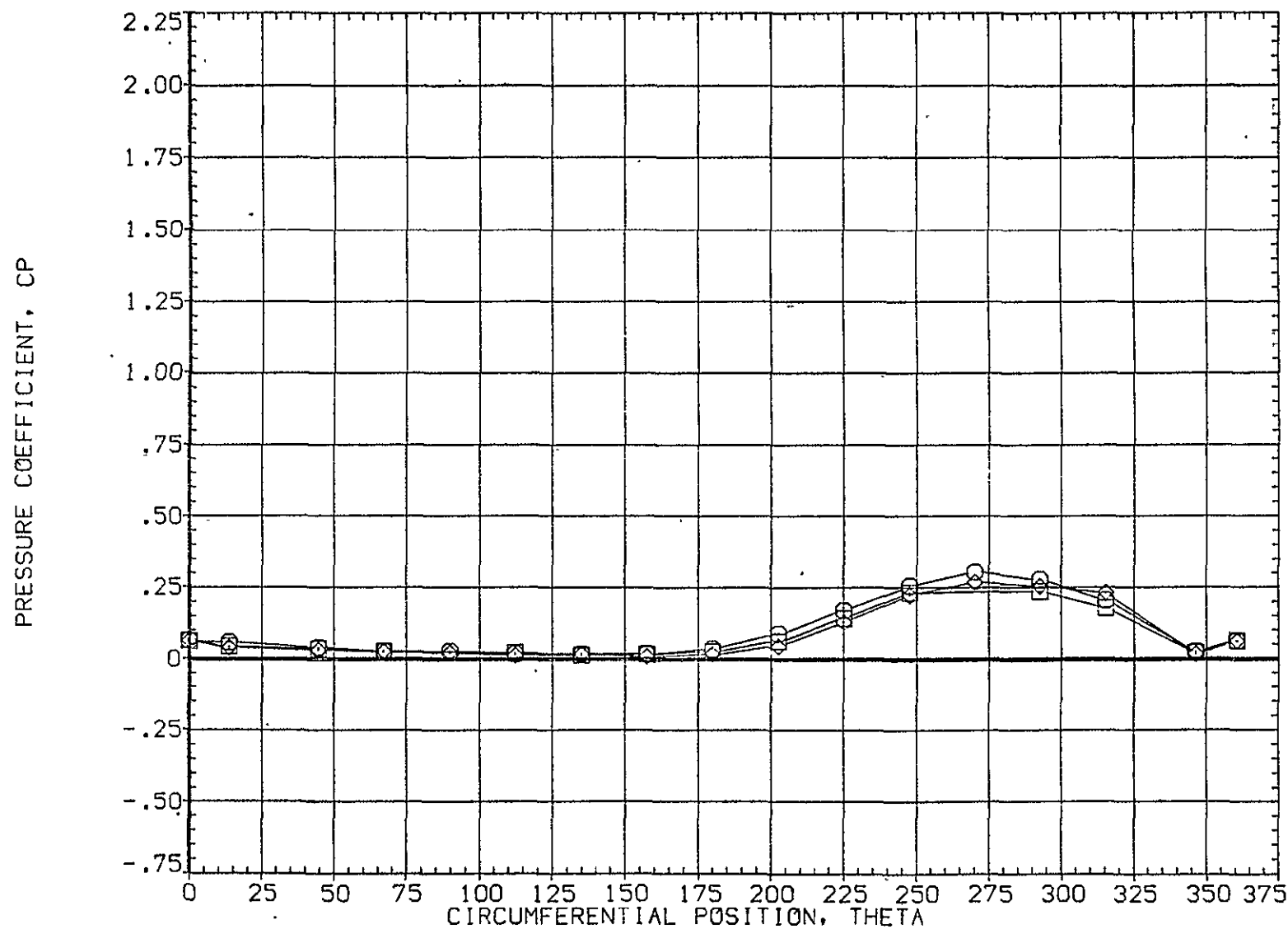
BETA
MOUNT.000
1.000OFFSET
PHI20.000
90.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A019)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.610	24.510	4.960	MOUNT	.000	PHI	90,000
□	.735				1.000		
◇	.860						

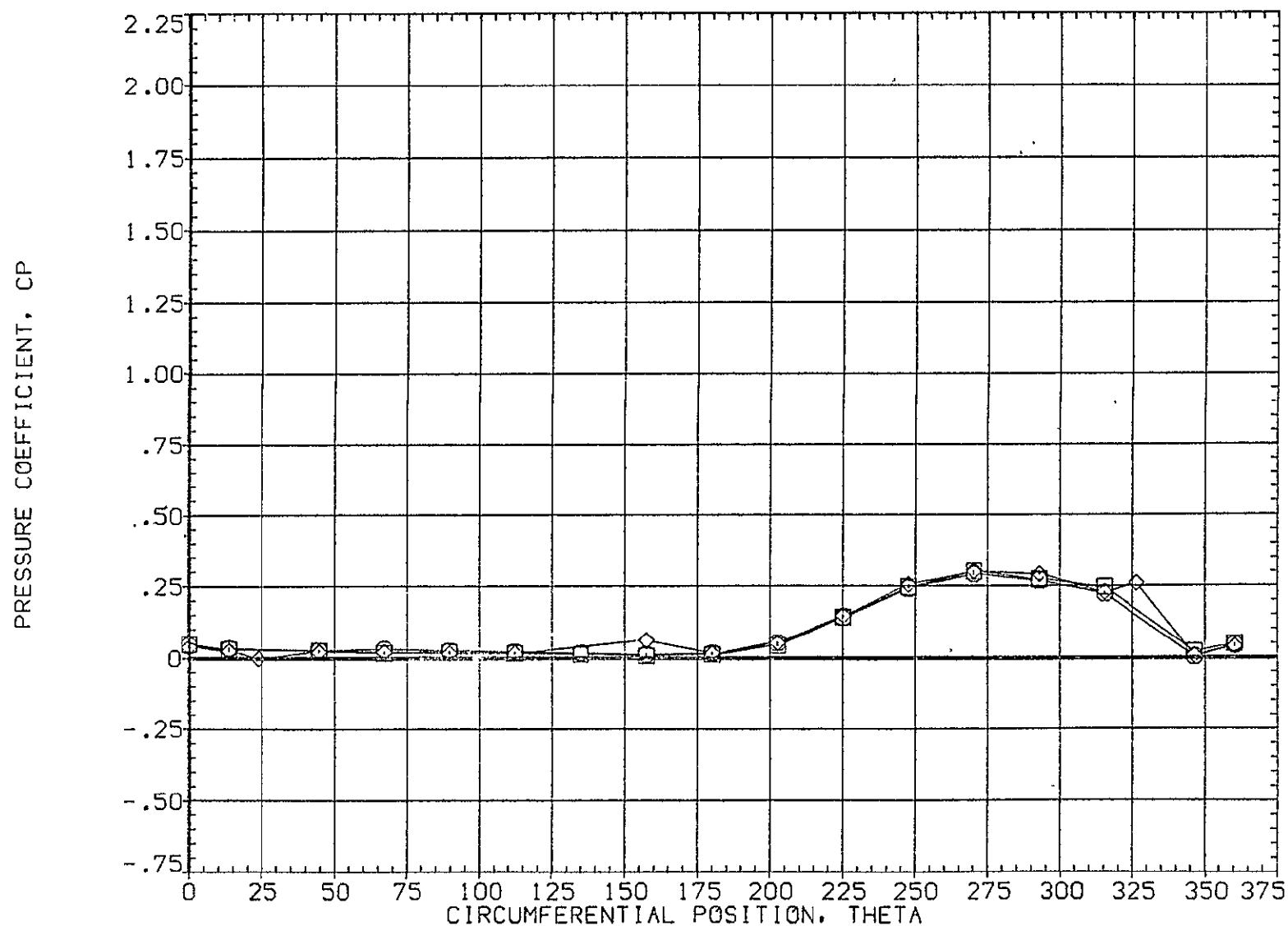


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.892	24.510	4.960		.000		20.000
□	.923			MOUNT	1.000		90.000
◇	.954						

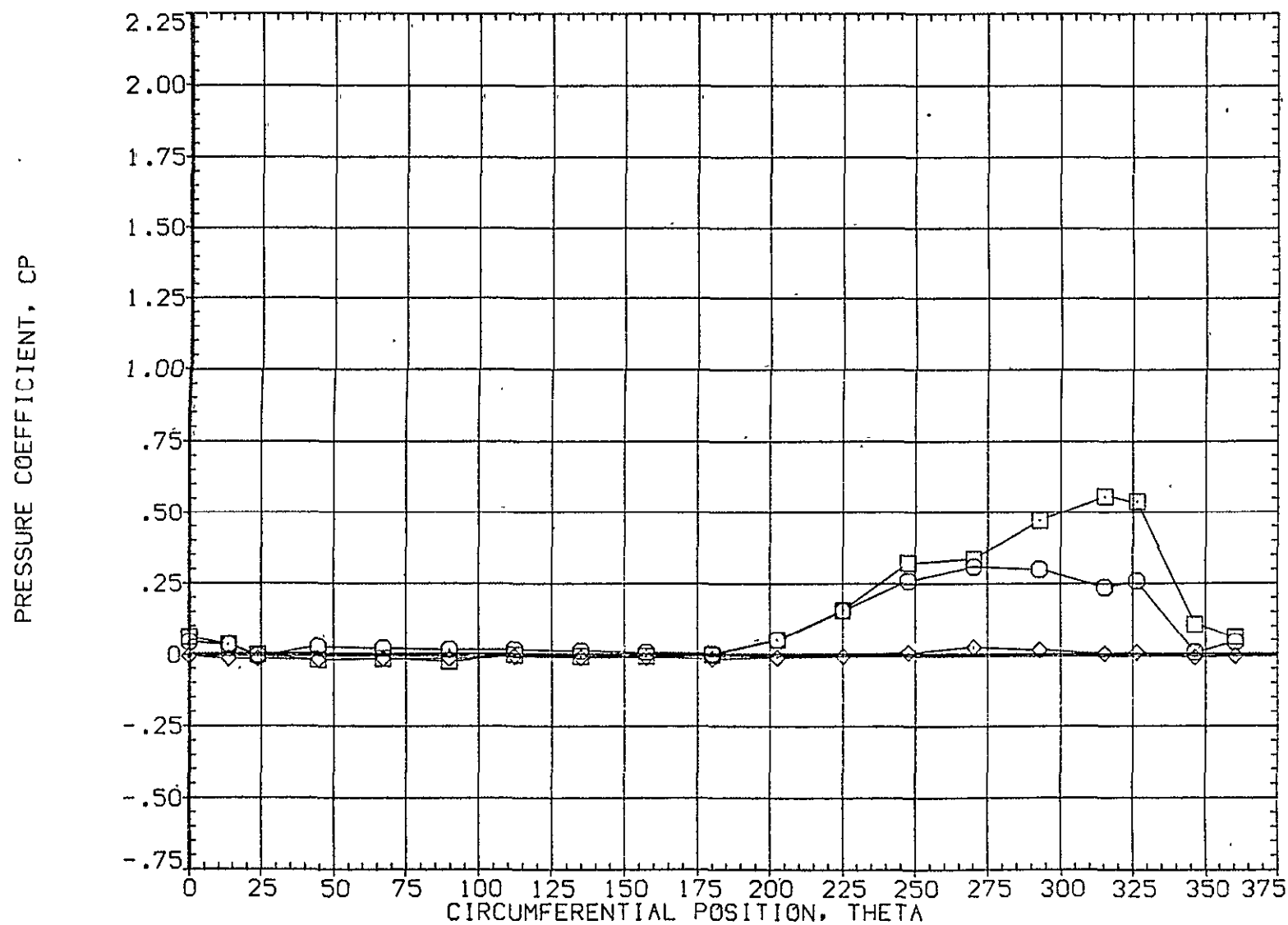


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A020)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	28.540	4.960	MOUNT	.000	OFFSET	20.000
□	.108				1.000	PHI	90.000
◇	.162						

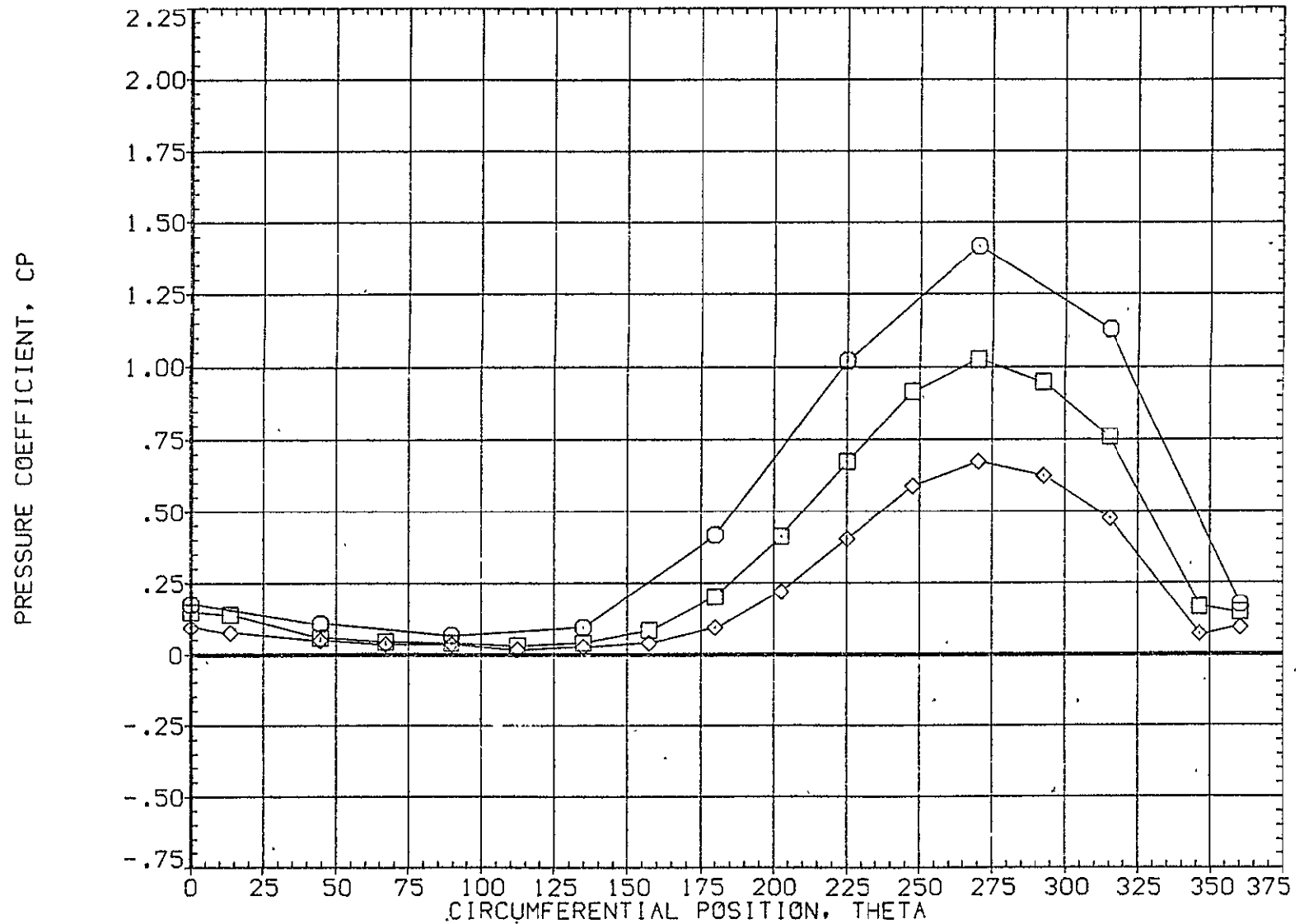


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	28.540	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	90.000

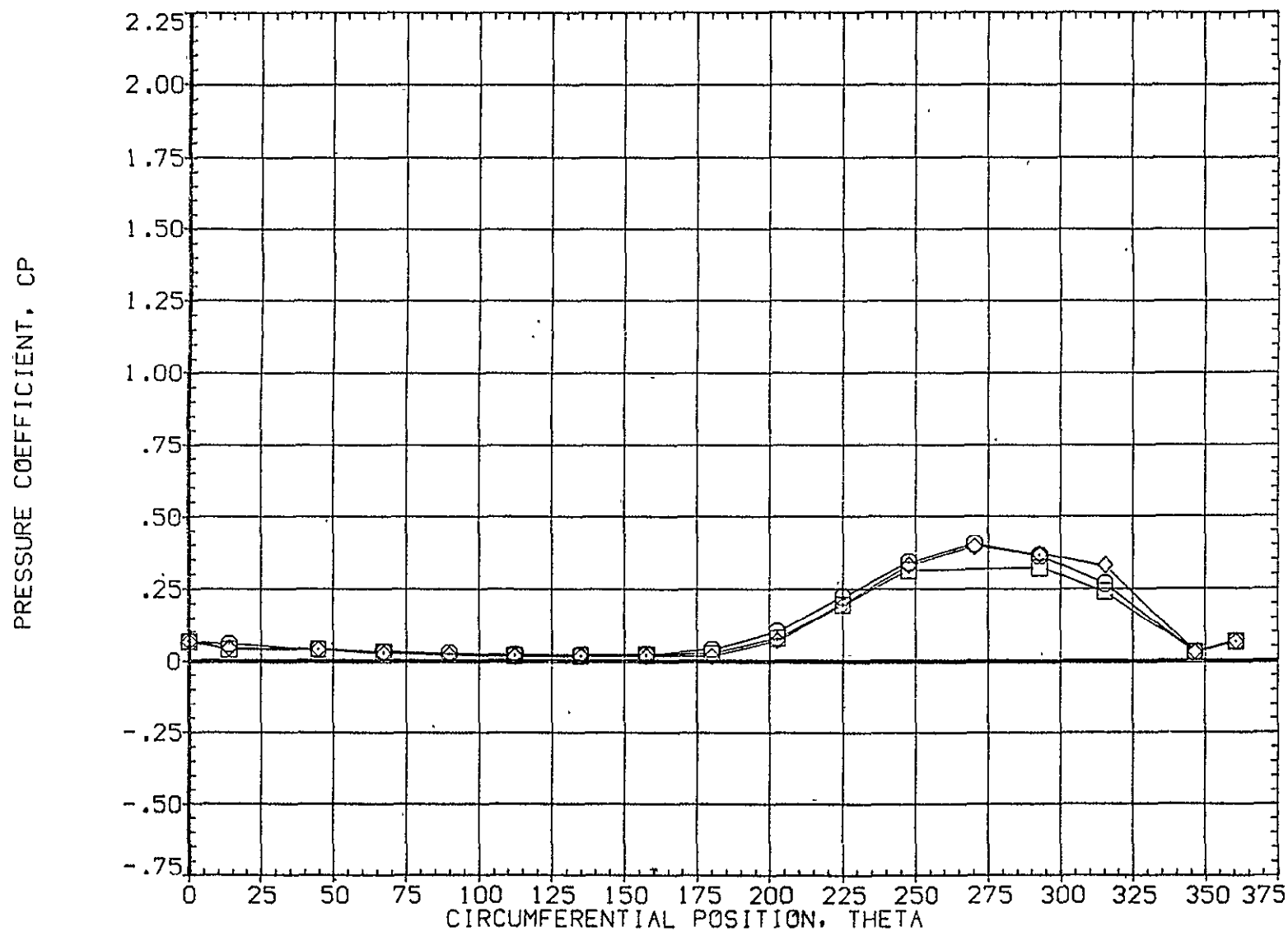


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A020)

SYMBOL	X/LB	ALPHA	MACH		BETA	PARAMETRIC VALUES		
○	.610	28.540	4.960			.000	OFFSET	20.000
□	.735				MOUNT	1.000	PHI	90.000
◇	.860							

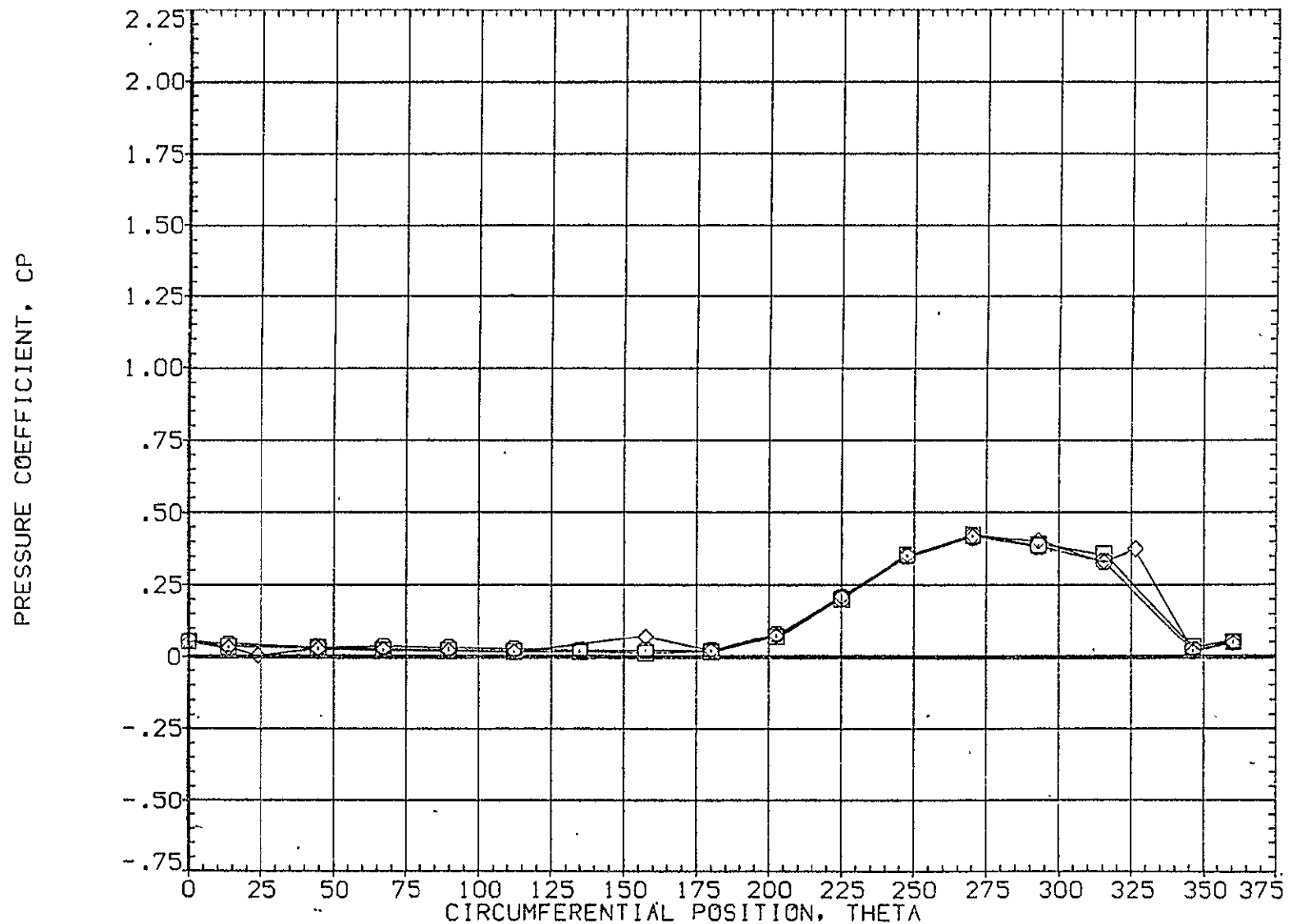


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
				MOUNT	1.000		90.000
○	.892	28.540	4.960				
□	.923						
◇	.954						

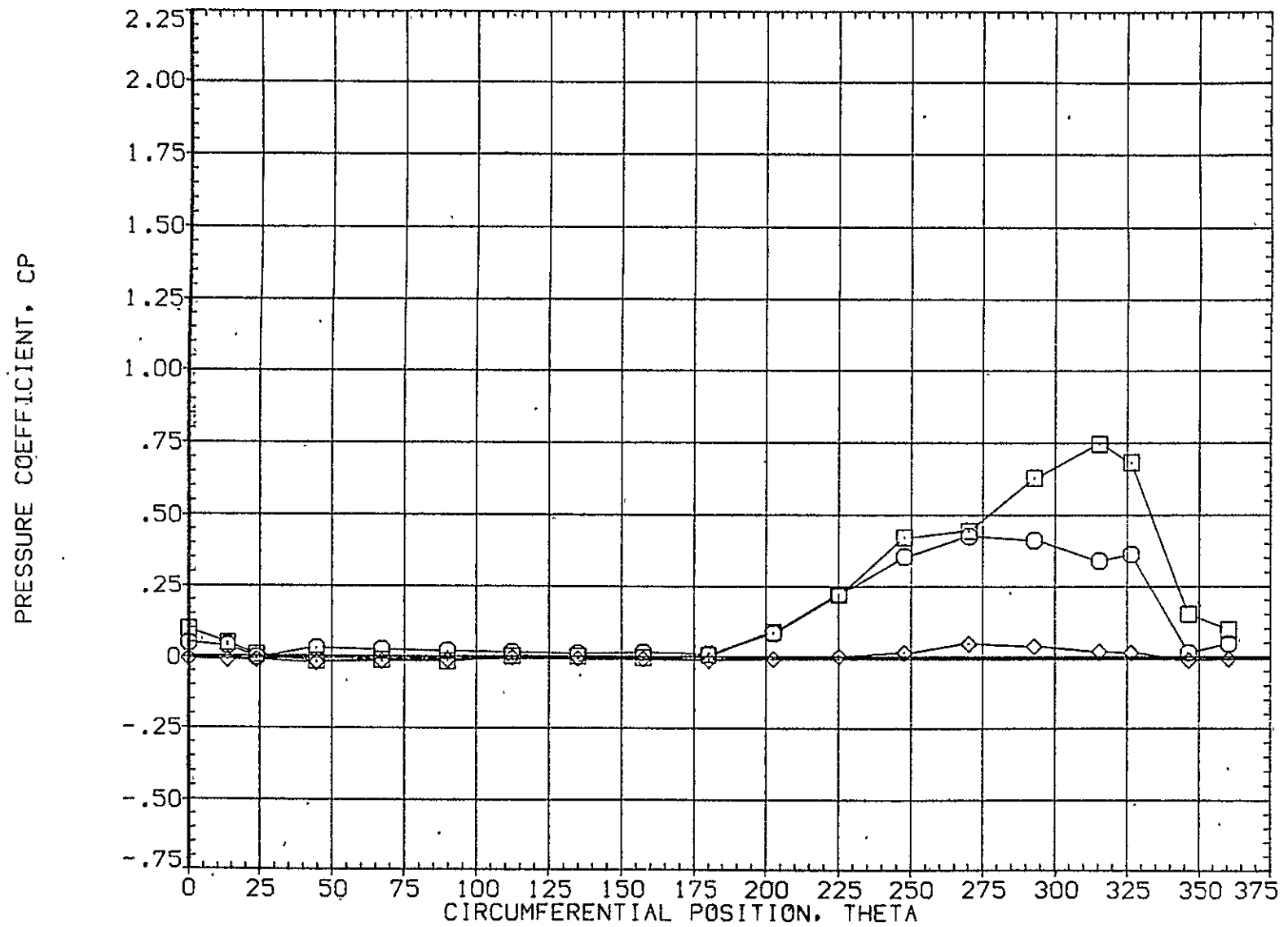


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A021)

SYMBOL	X/LB	ALPHA	MACH
○	.055	-8.310	4.960
□	.108		
◇	.162		

PARAMETRIC VALUES		
BETA	OFFSET	
MOUNT	PHI	
.000	.000	
1.000	135.000	

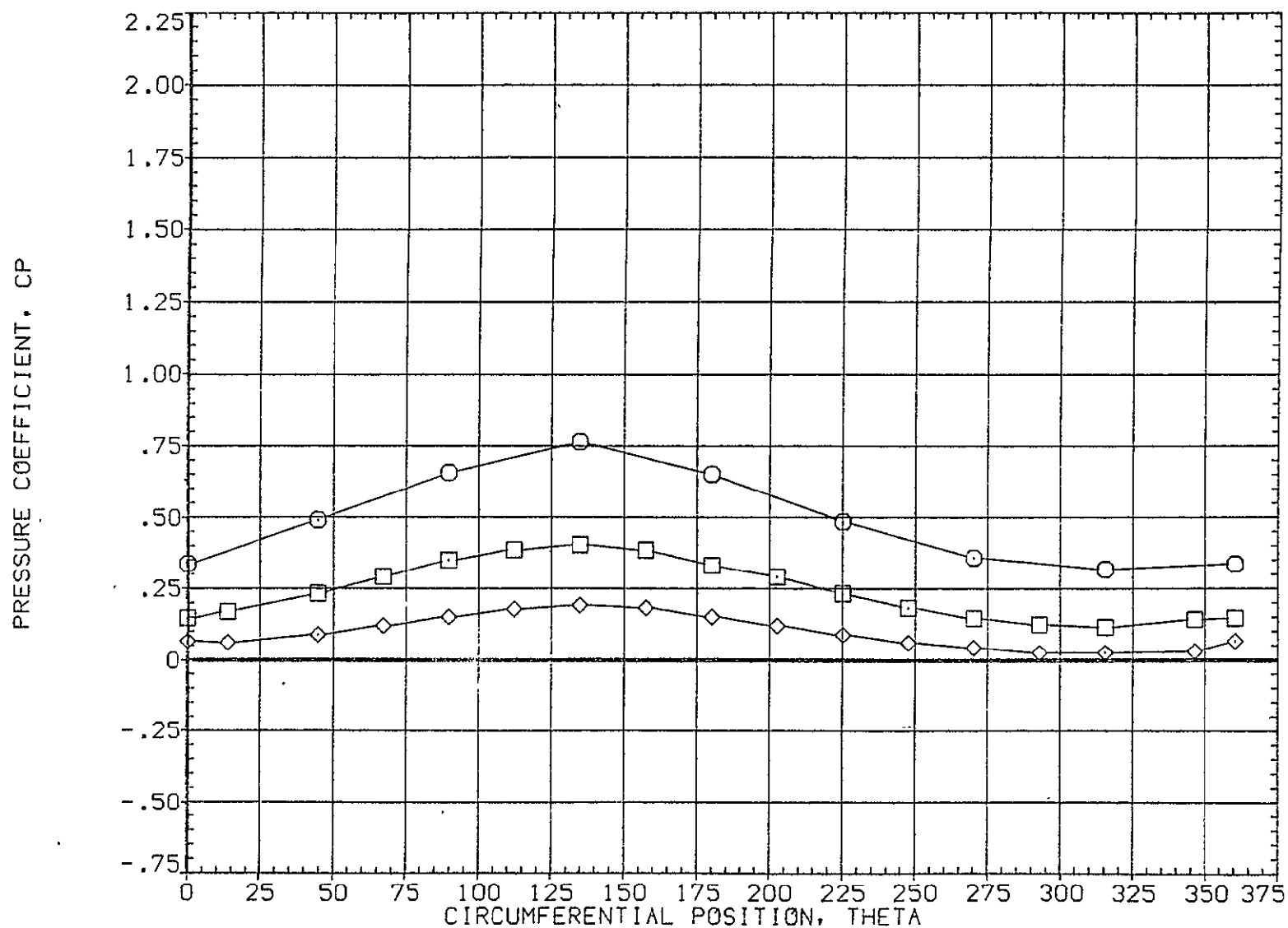


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.216	-8.310	4.960	.000		.000	
□	.322			1.000			135.000
◇	.518						

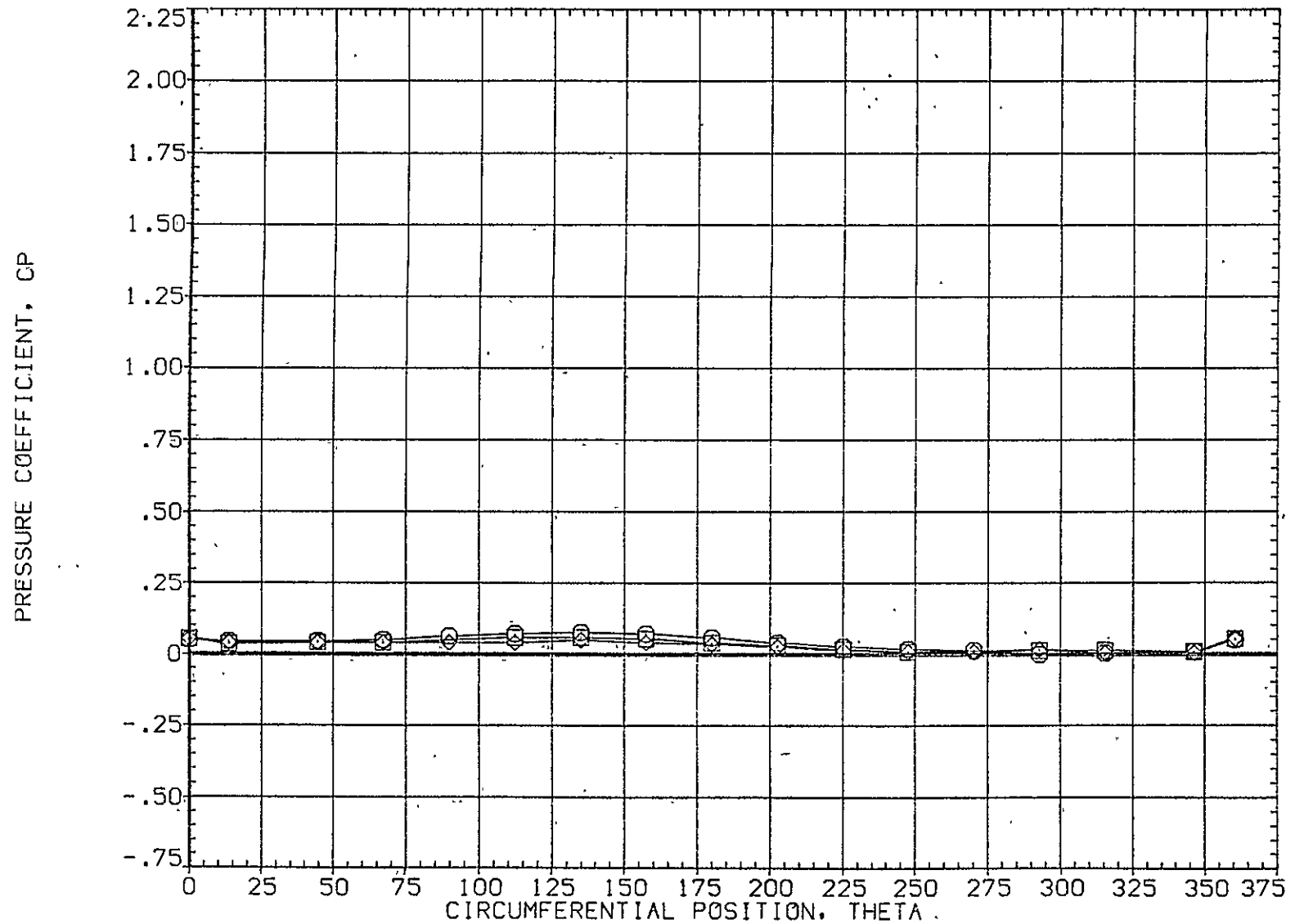


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A021)

SYMBOL	X/LB	ALPHA	MACH
○	.610	-8.310	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	135.000

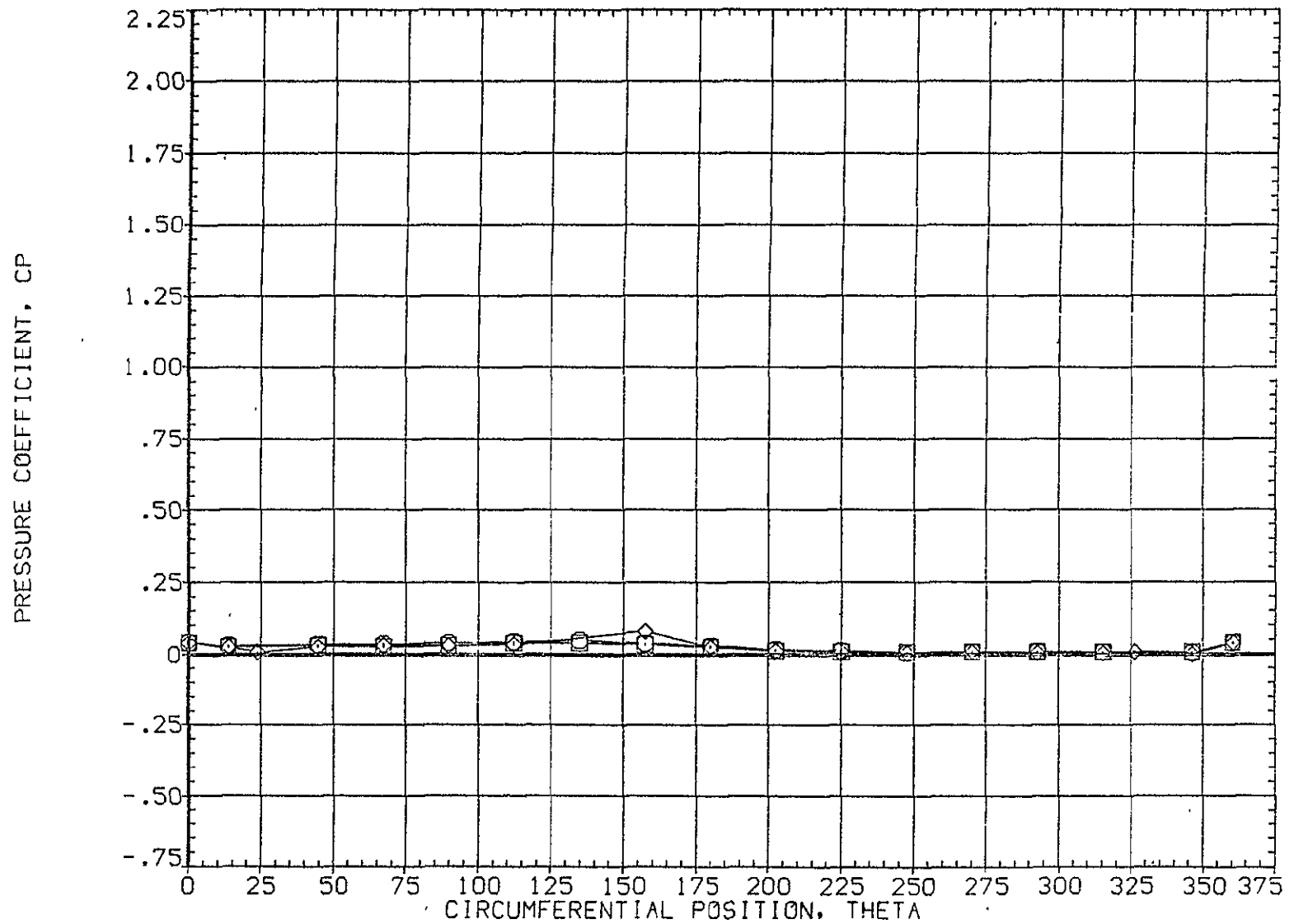


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.892	-8.310	4.960	BETA	.000	OFFSET	.000
□	.923			MOUNT	1.000	PHI	135.000
◇	.954						

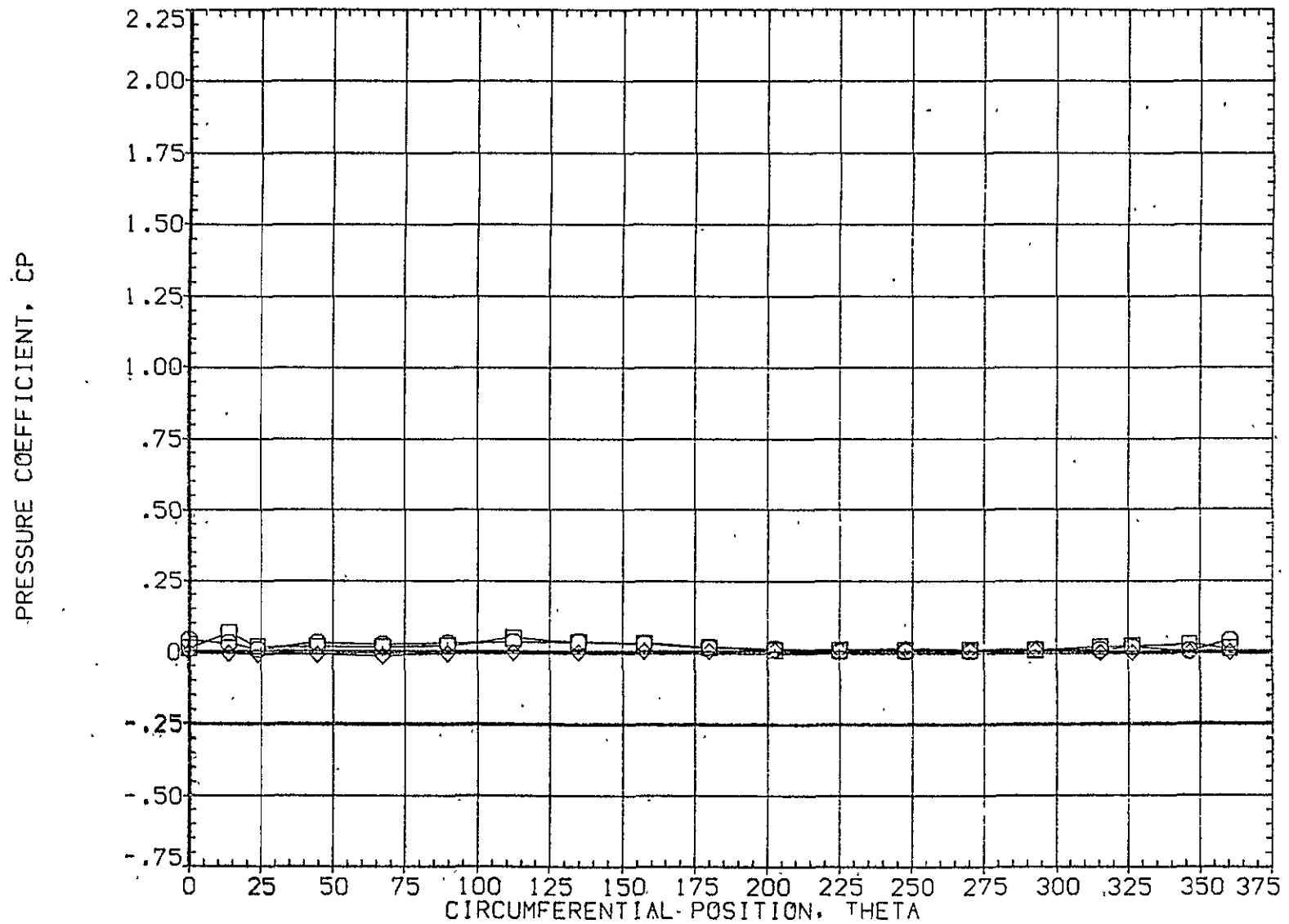


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK. T1

(P1A022)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	135.000
○	.055	-4.290	4.960				
□	.108						
◇	.162						

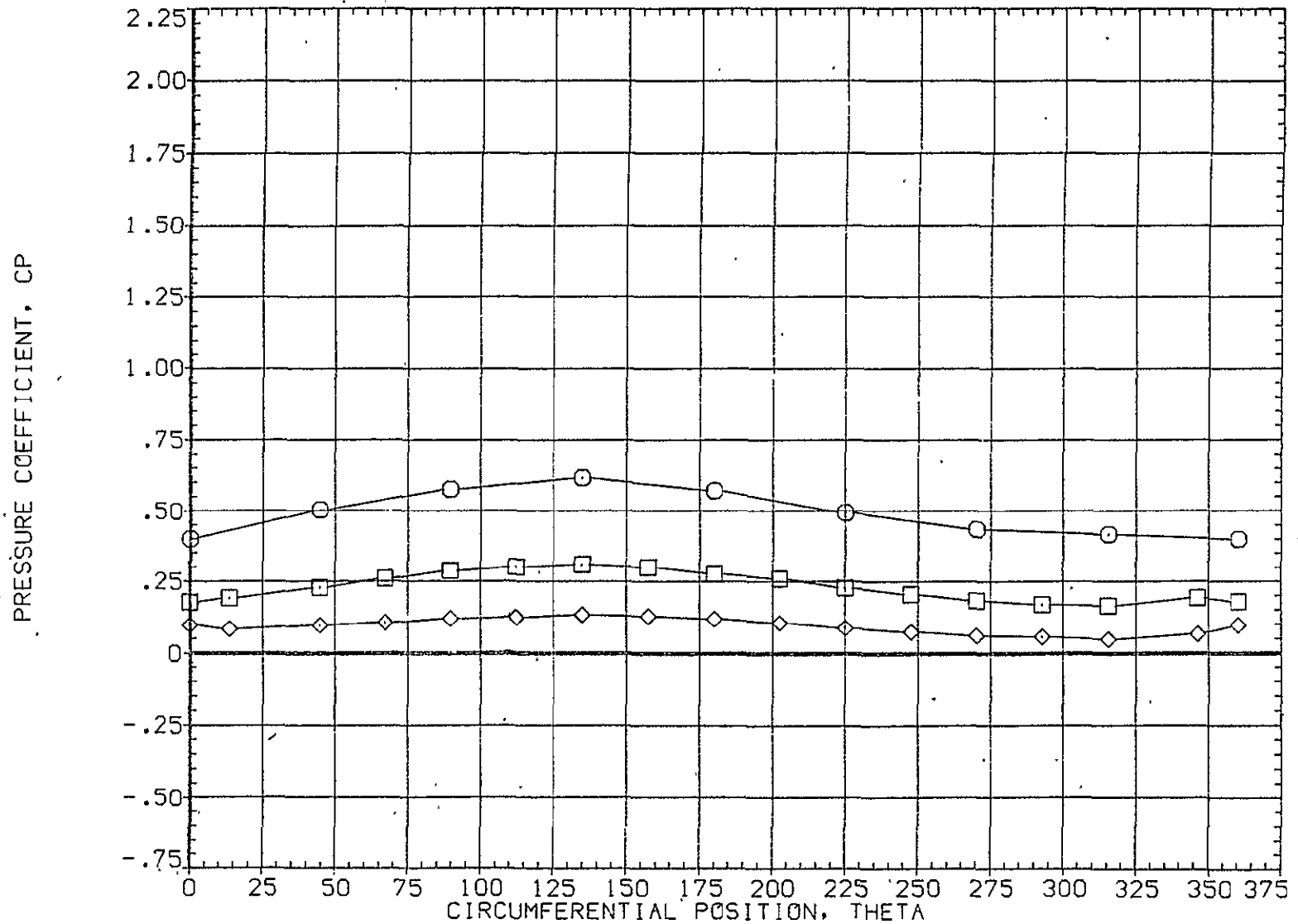


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-4.290	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	135.000

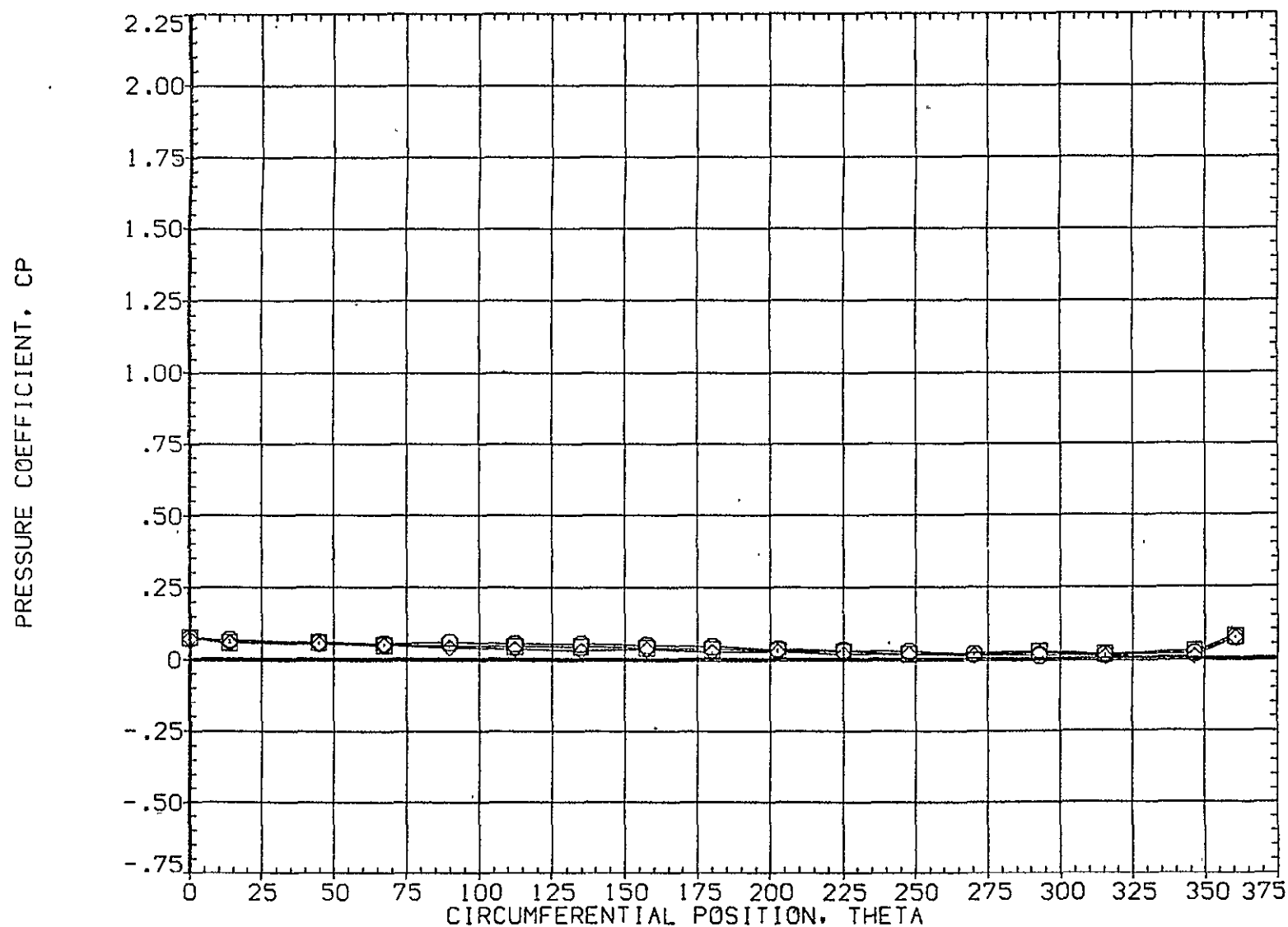


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A022)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.610	-4.290	4.960	.000			.000
□	.735			1.000			135.000
◇	.860						

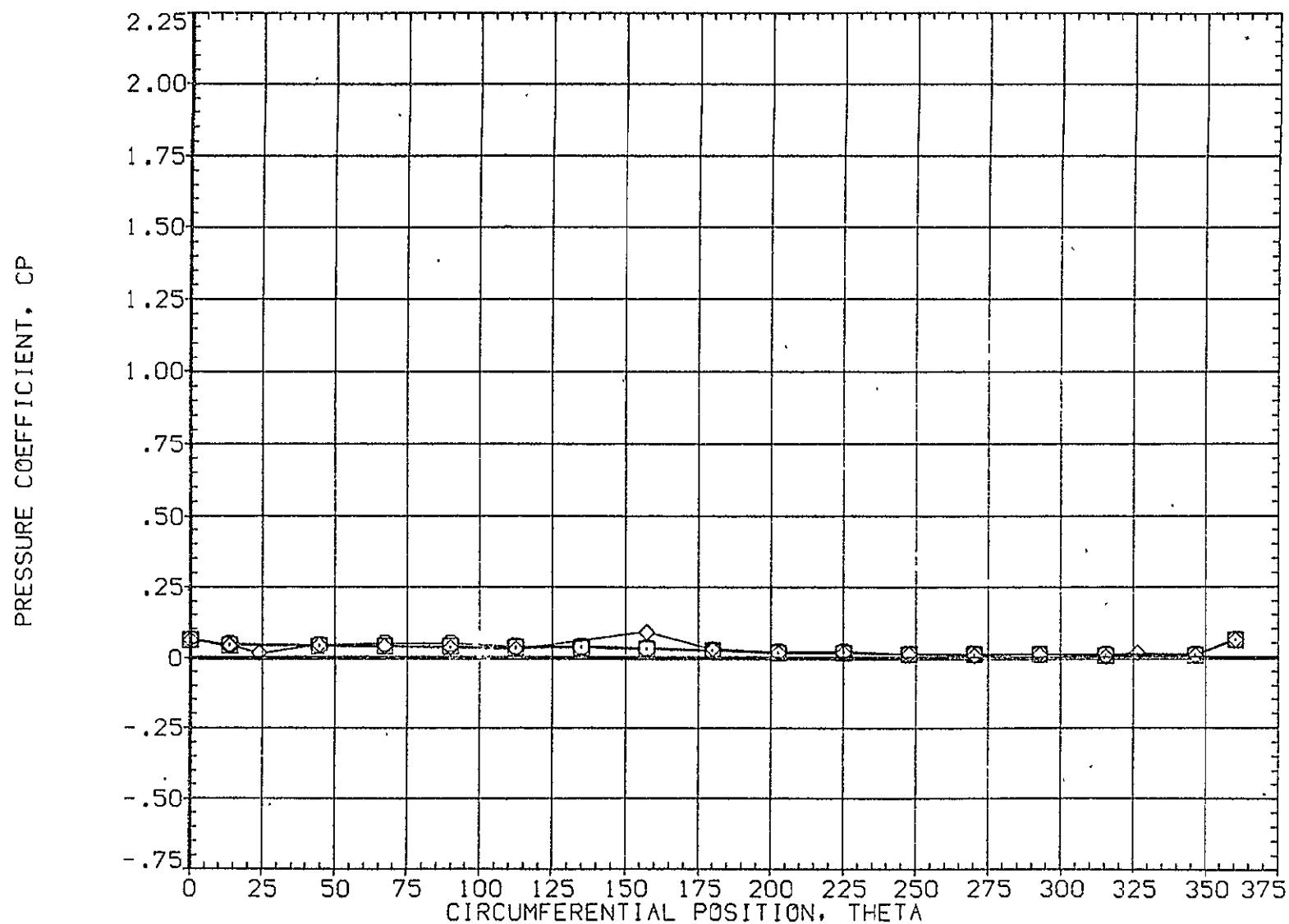


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.892	-4.290	4.960	.000		.000	
□	.923			1.000			135.000
◇	.954						

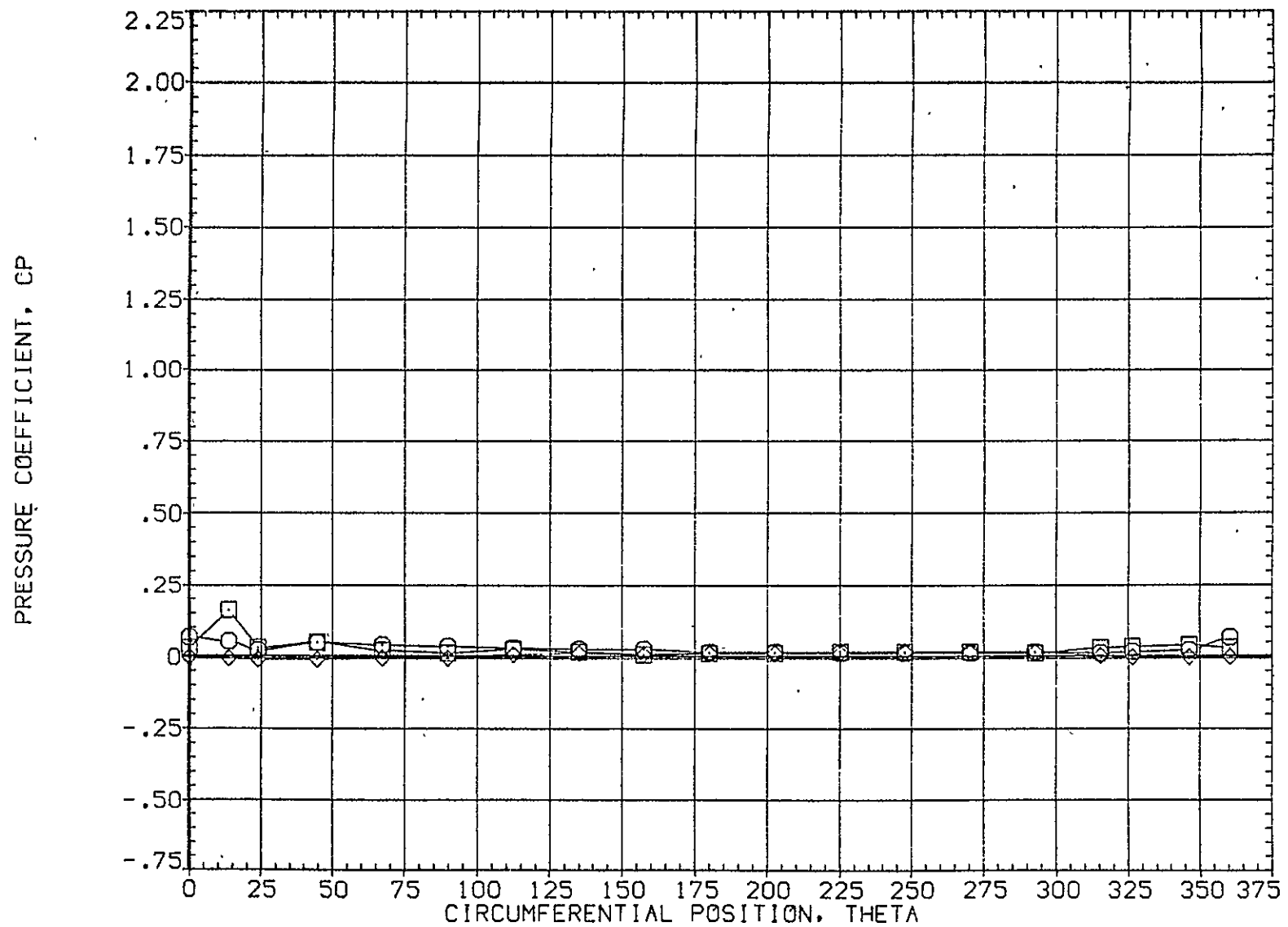


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	-.280	4.960	.000	.000	.000
□	.108			1.000	PHI .	135.000
◇	.162					

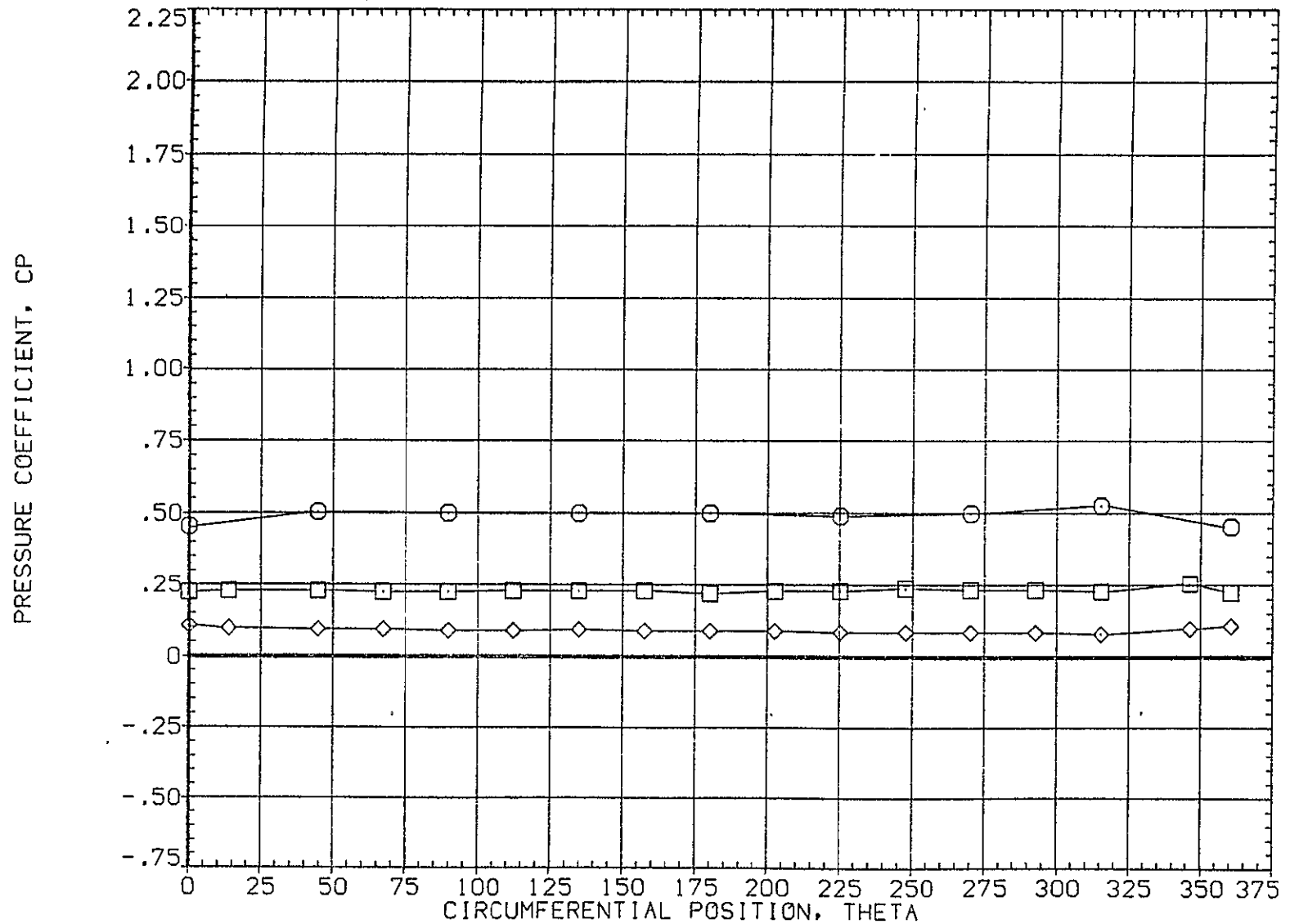


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-.280	4.960	.000		.000
□	.322			1.000	PHI	135.000
◇	.518					

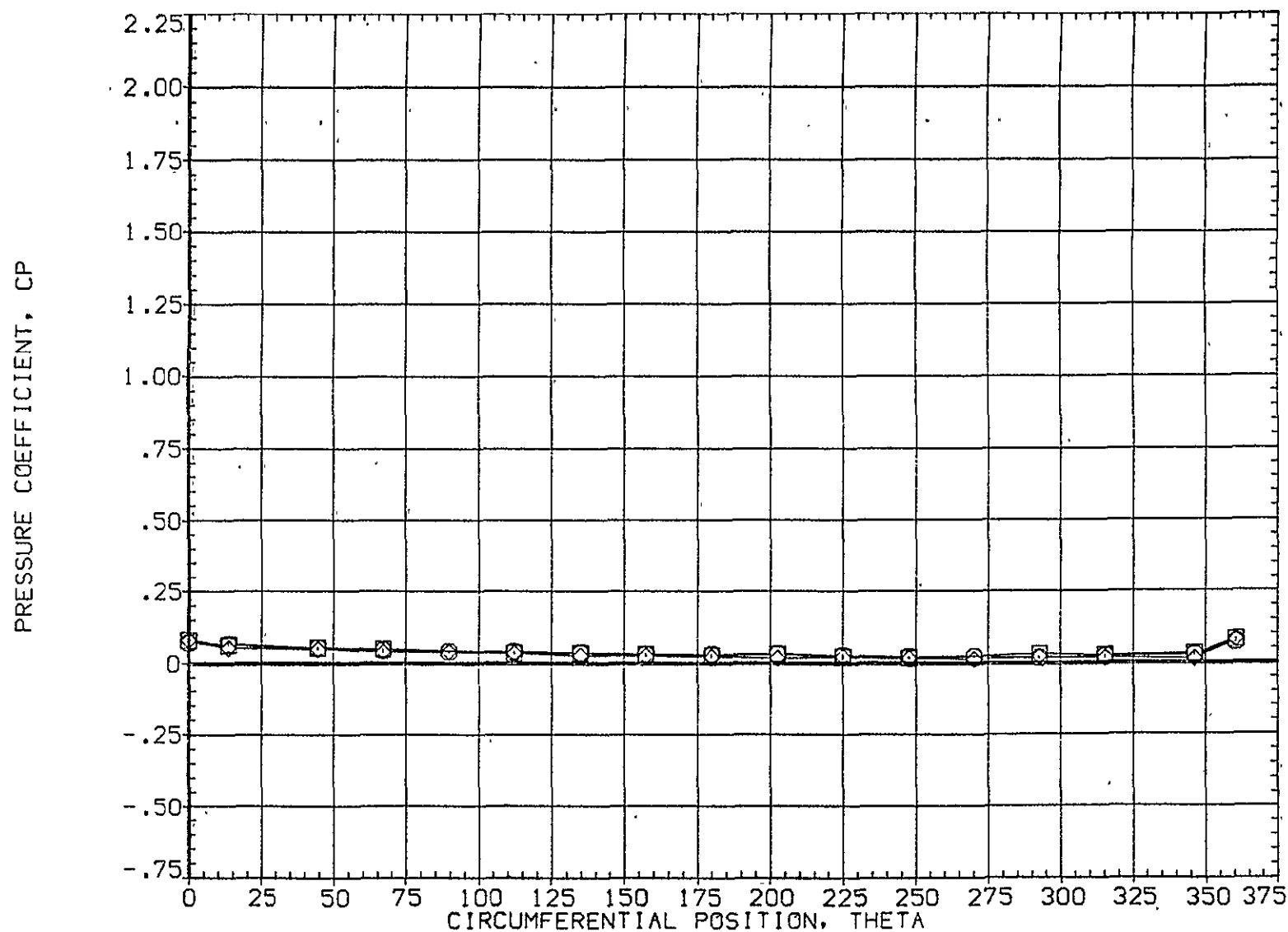


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A023)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-.280	4.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	135.000
◇	.860						

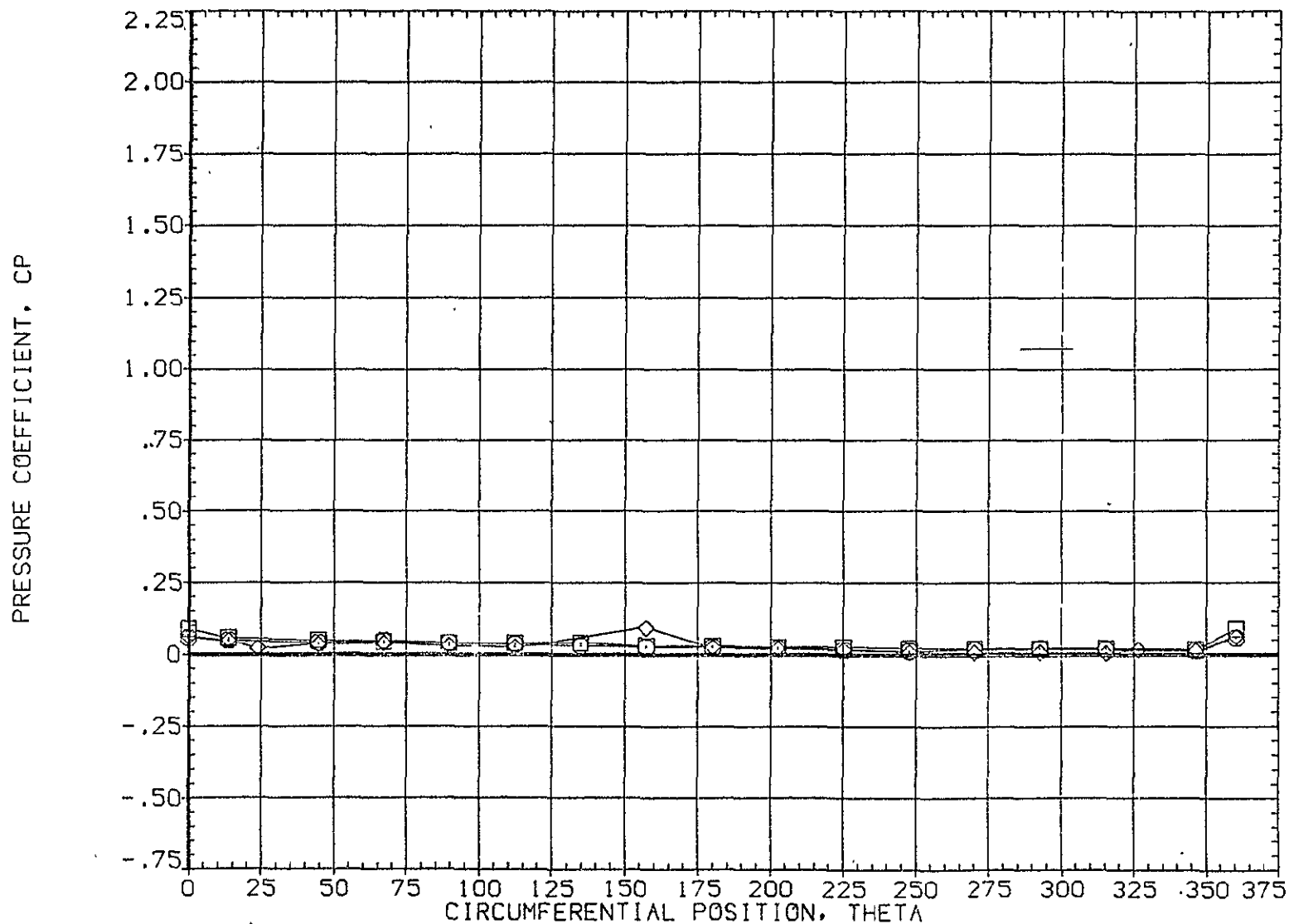


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	VALUE .000 135.000
○	.892	-.280	4.960			
□	.923					
◇	.954					

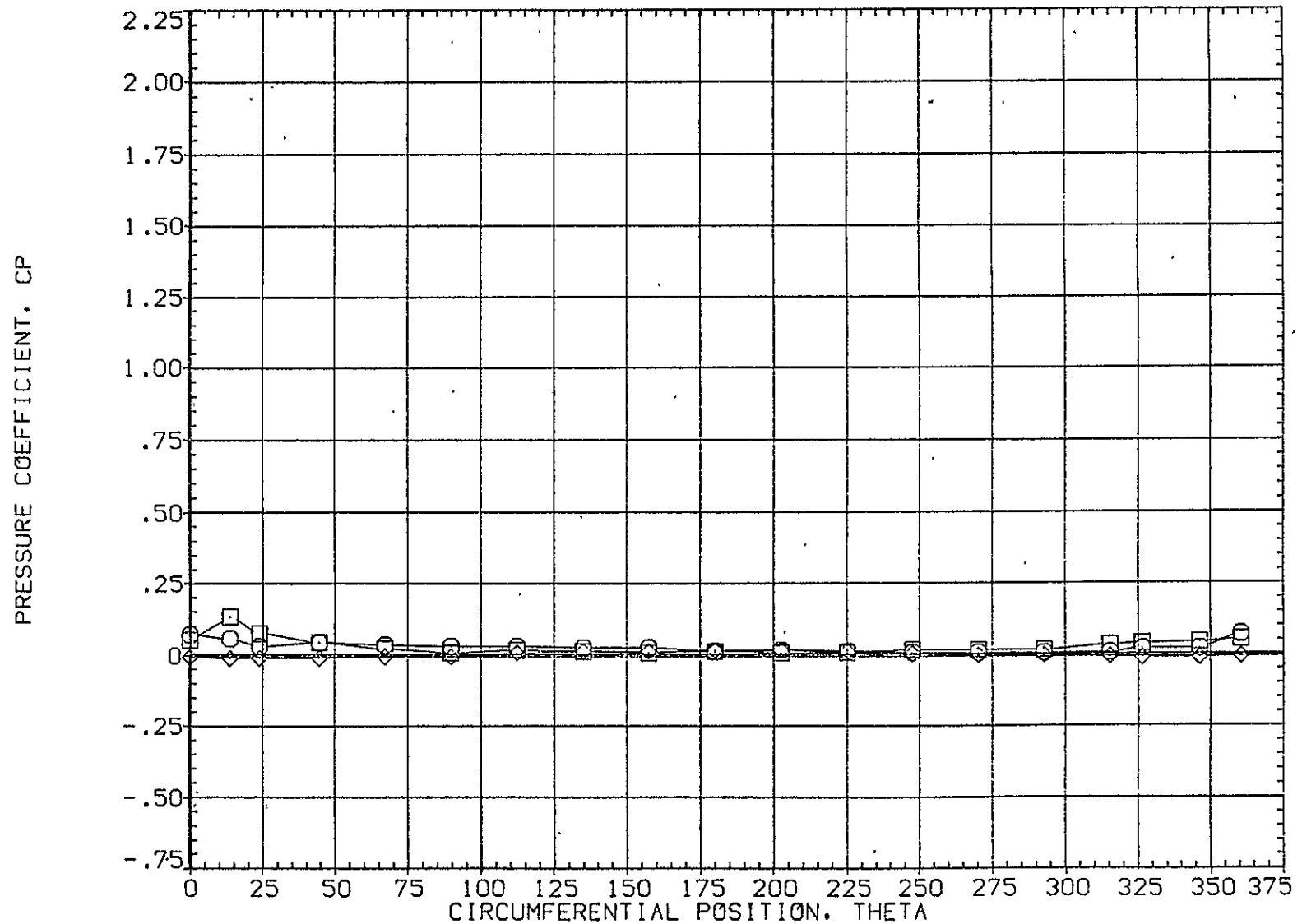


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A024)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	3.730	4.960	MOUNT	.000	.000
□	.108				1.000	PHI 135.000
◇	.162					

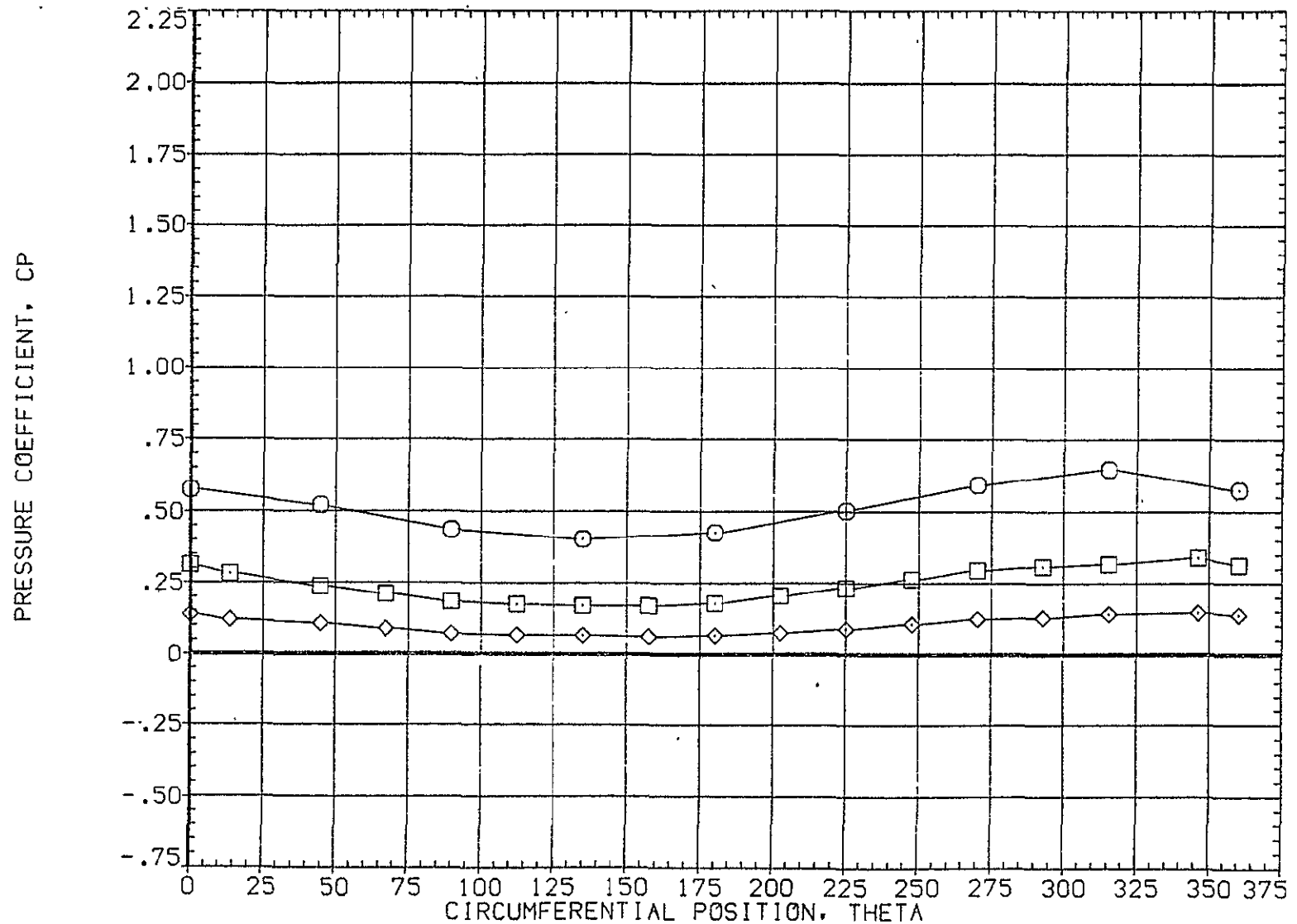


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	3.730	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET .000
MOUNT	1.000	PHI 135.000

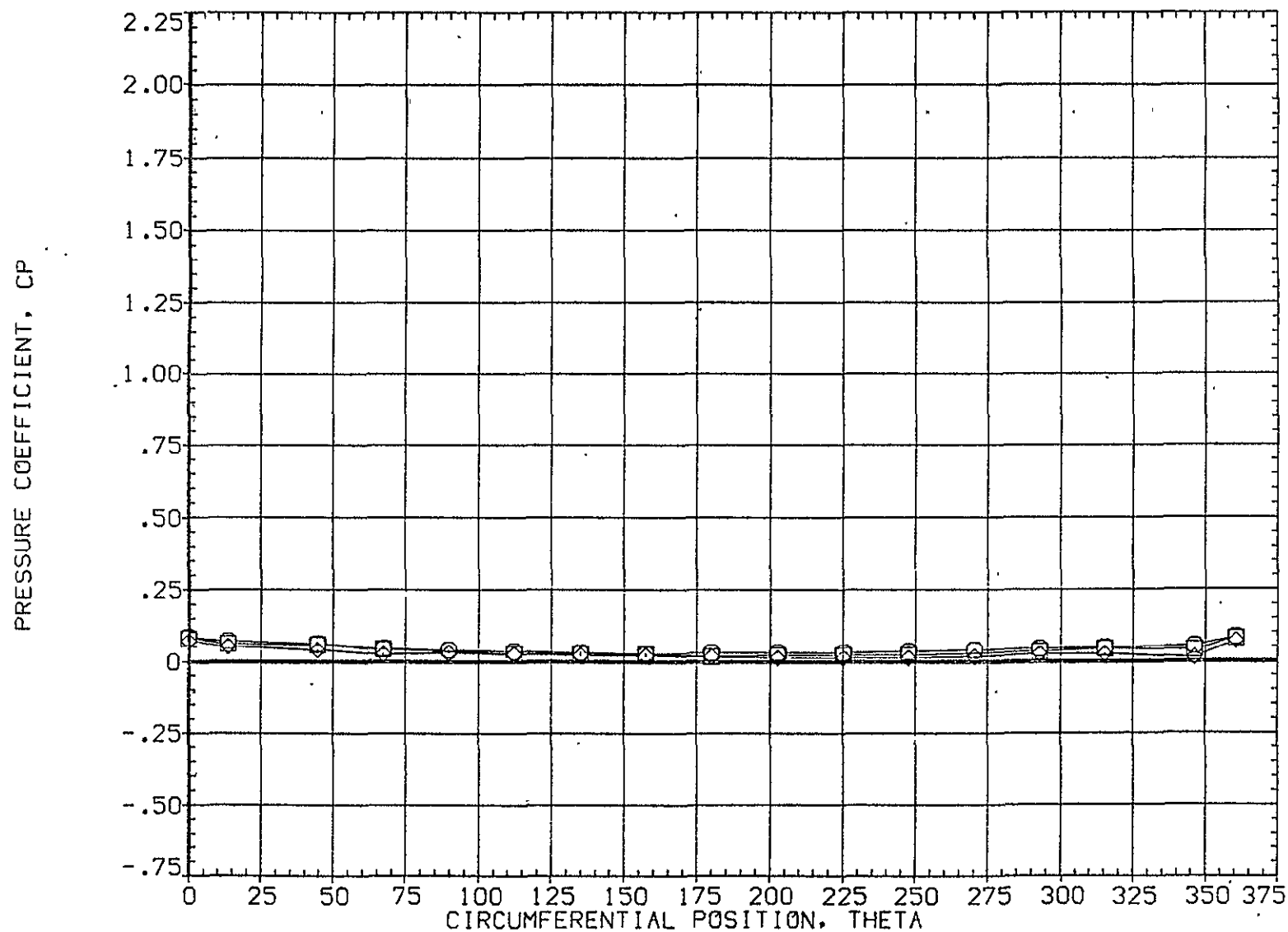


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A024)

SYMBOL	X/LB	ALPHA	MACH		BETA	PARAMETRIC VALUES	
◇	.610	3.730	4.960		.000	OFFSET	.000
□	.735				1.000	PHI	135.000
◇	.860						

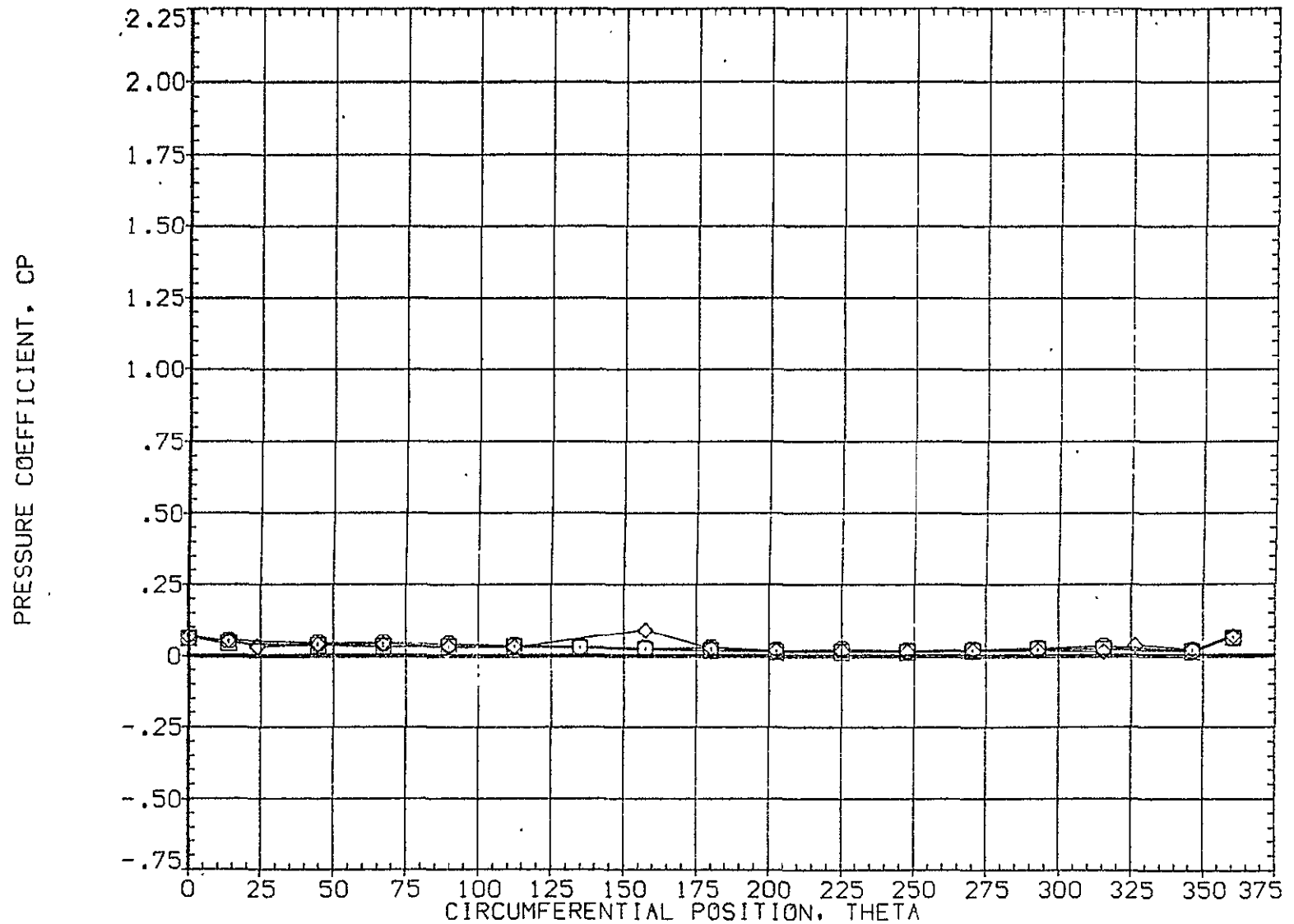


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	.000
○	.892	3.730	4.960				
□	.923						
◇	.954						
				MOUNT	1.000		135.000

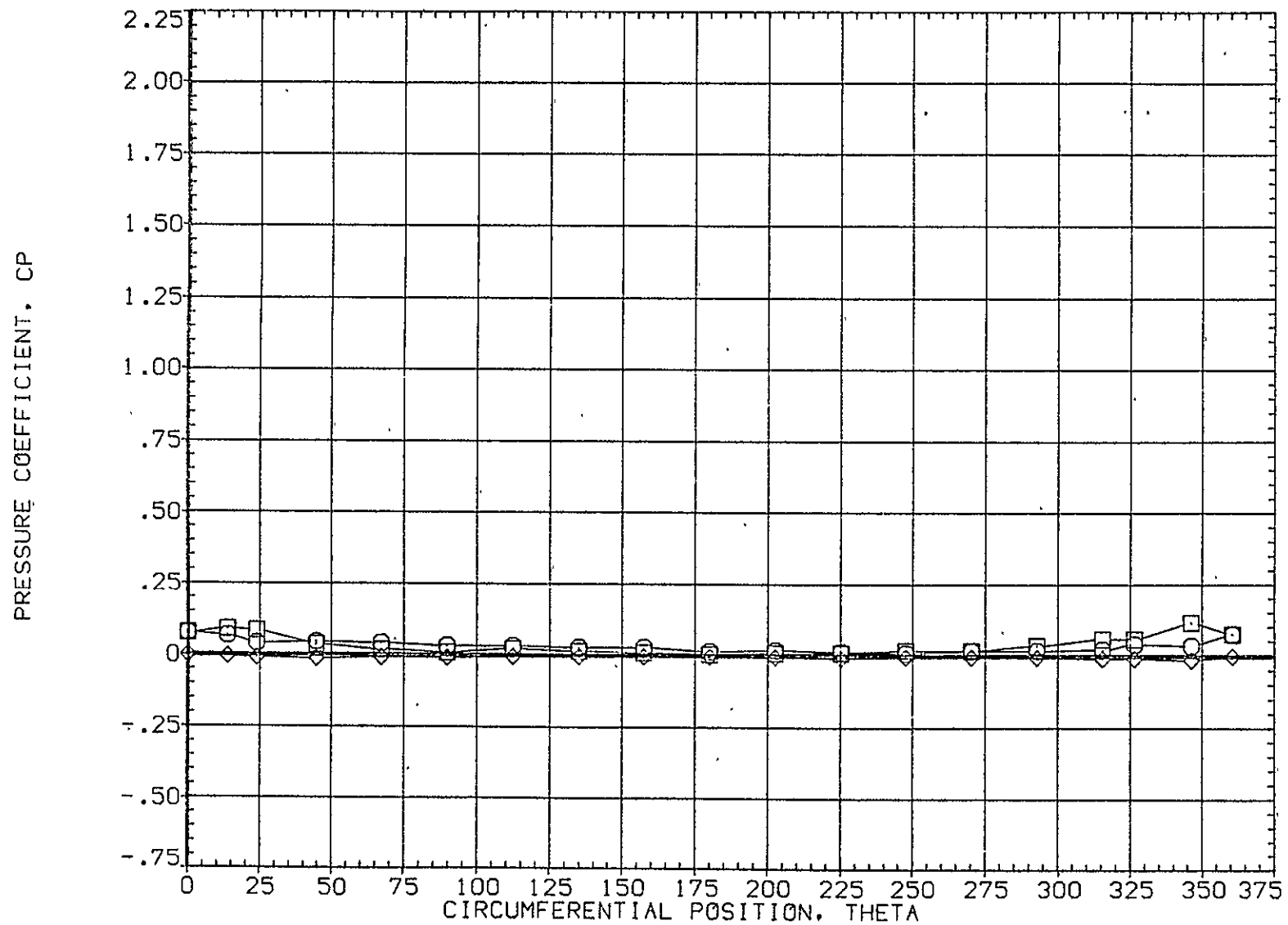


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1.

(P1A025)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	7.750	4.960	MOUNT	.000	PHI	135.000
□	.108				1.000		
◇	.162						

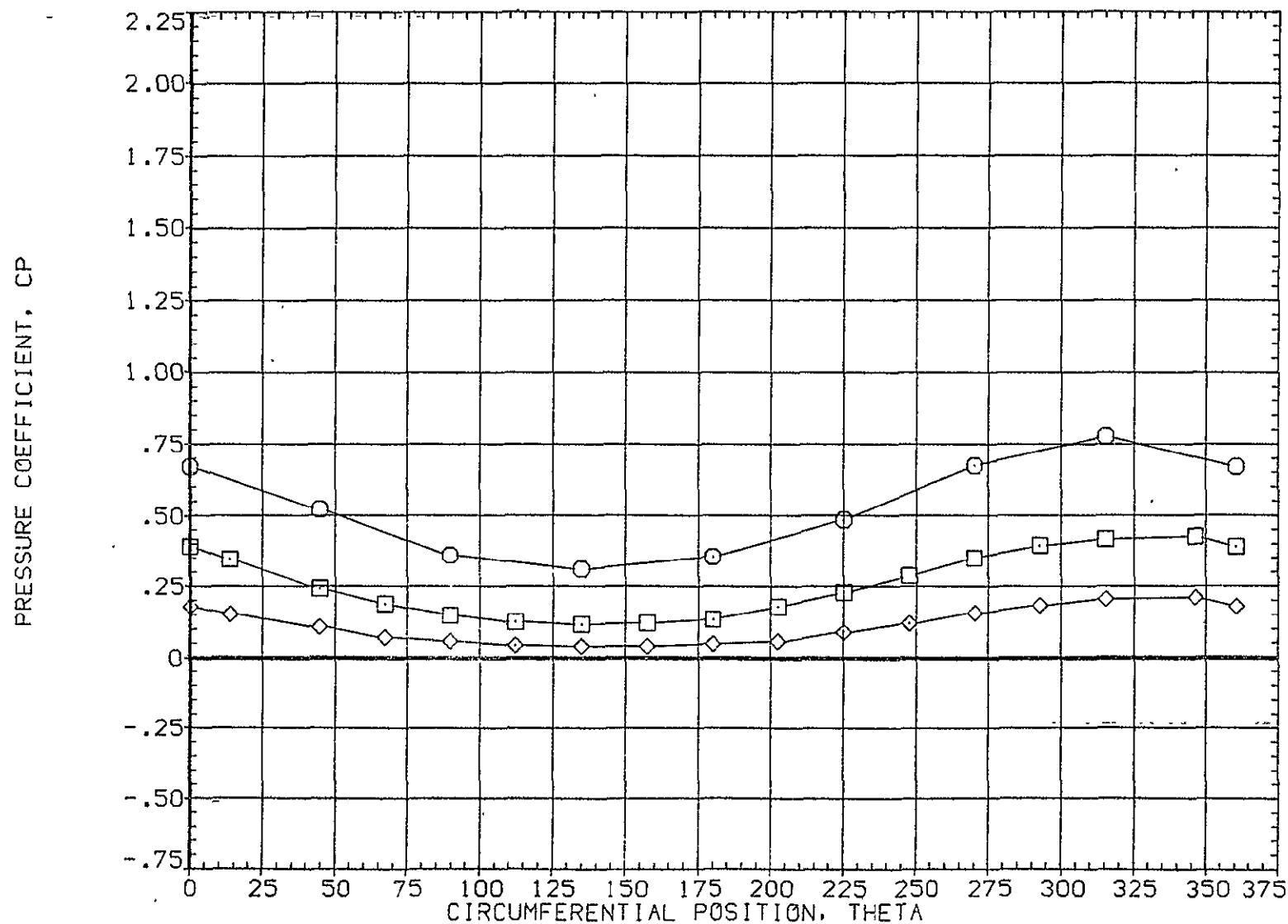


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	7.750	4.960	.000	PHI	.000
□	.322			1.000		135.000
◇	.518					

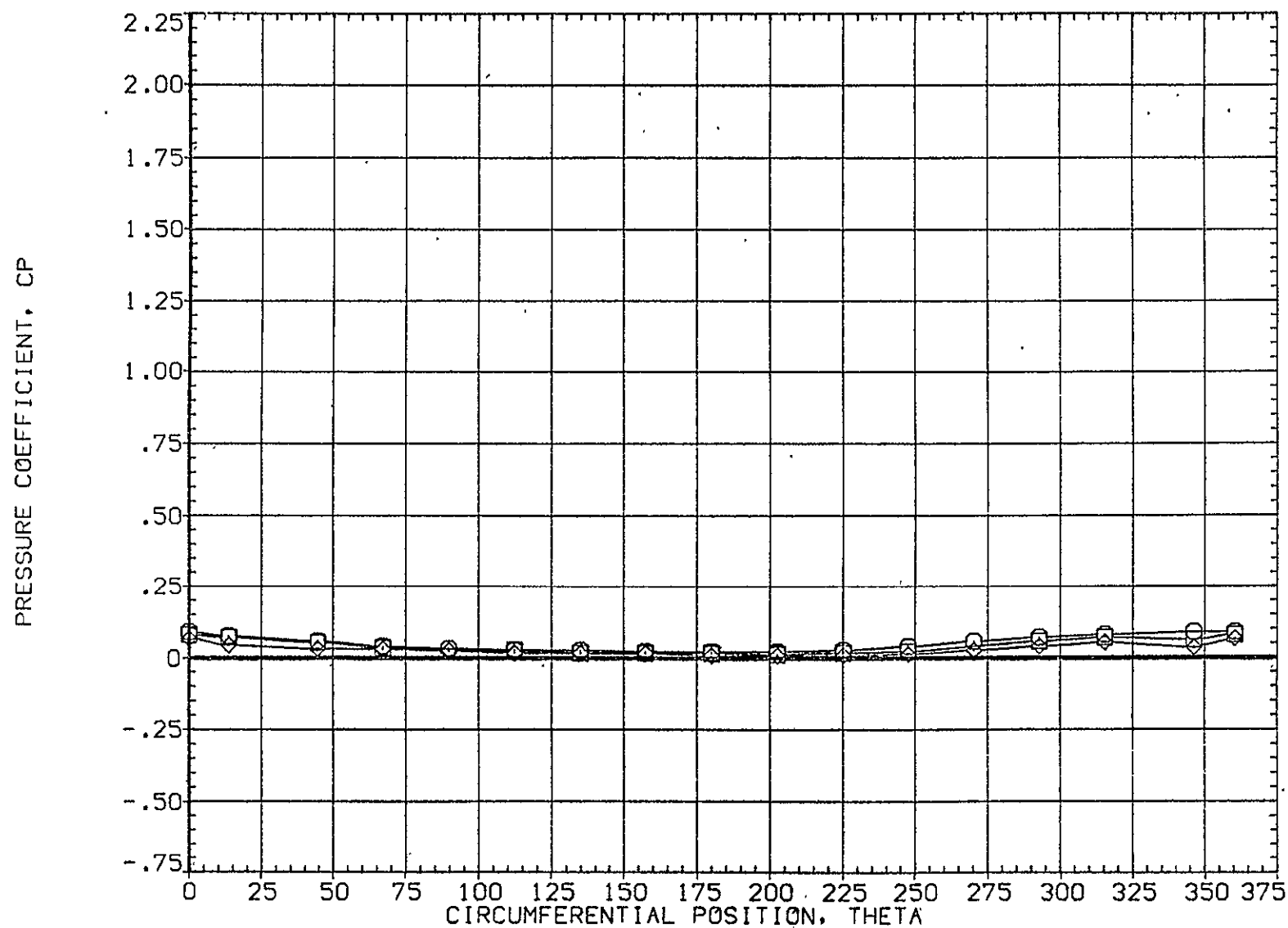


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A025)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.610	7.750	4.960	BETA	.000	OFFSET
□	.735			MOUNT	1.000	PHI
◇	.860					135.000

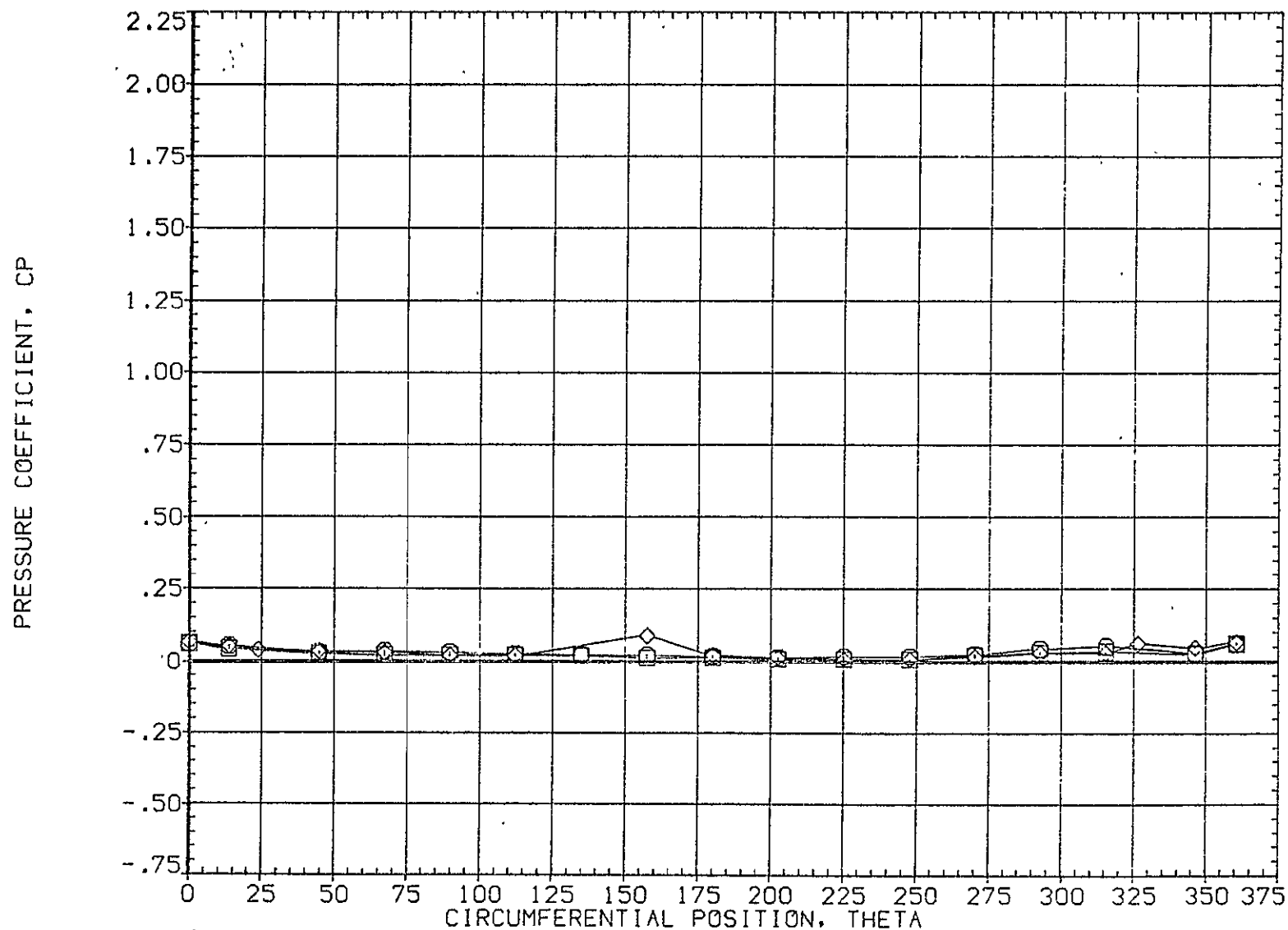


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	7.750	4.960	.000		.000
□	.923			1.000	PHI	135.000
◇	.954					

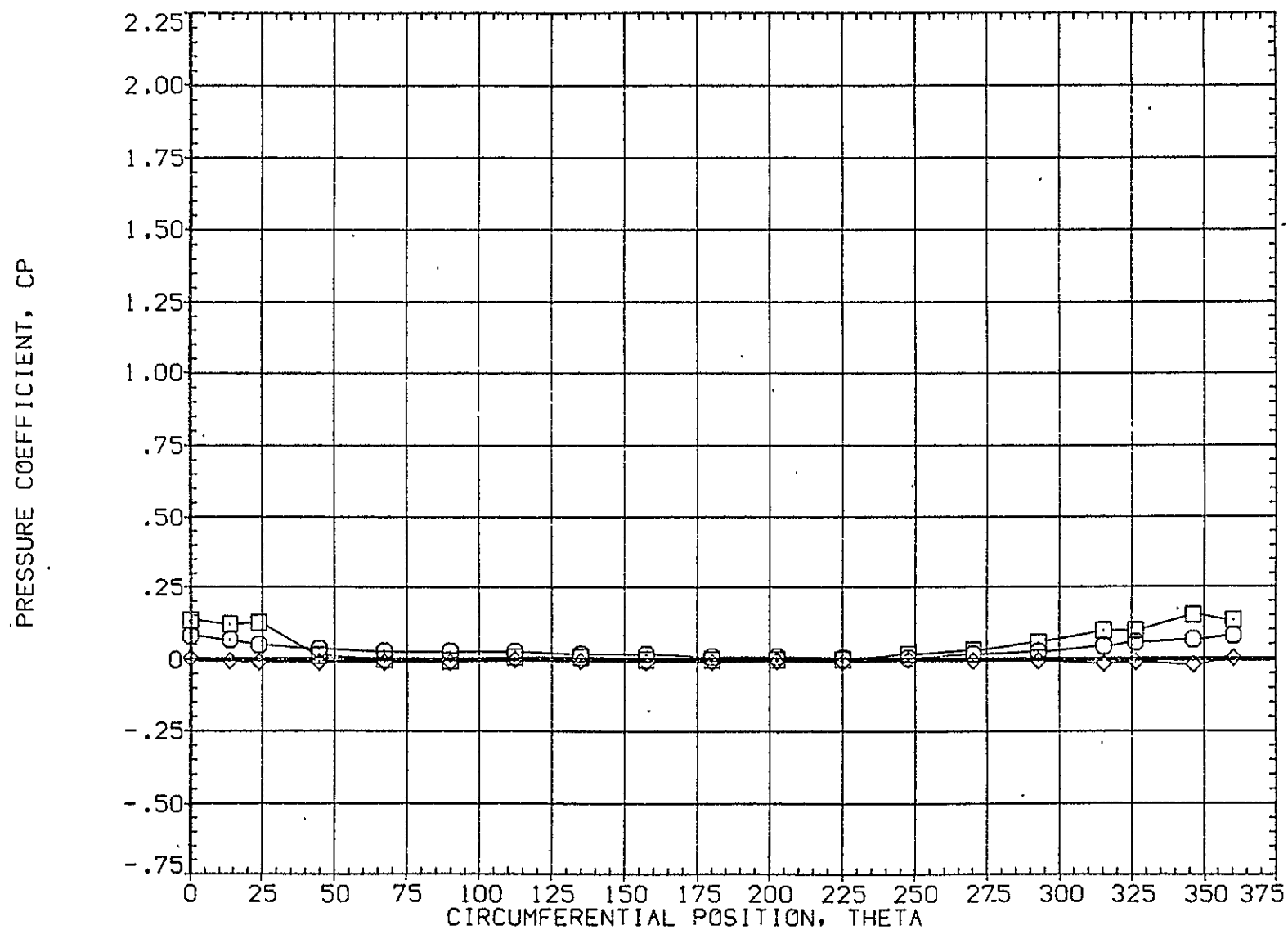


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A026)

SYMBOL
○
□
◇

X/LB
.055
.108
.162

ALPHA
12.450

MACH
4.960

BETA
MOUNT

PARAMETRIC VALUES

.000
1.000

OFFSET
PHI

20.000
135.000

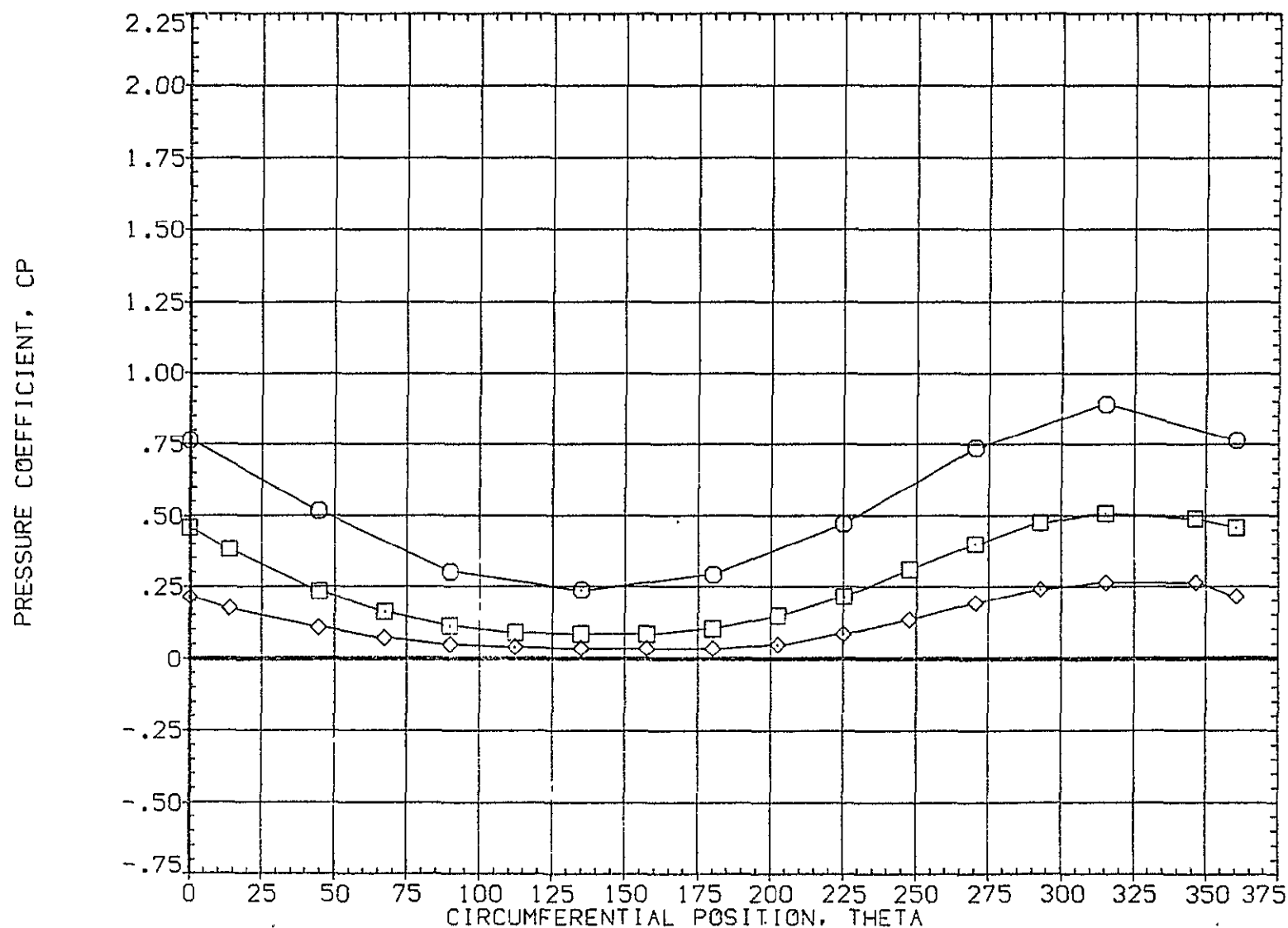


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
				MOUNT	PHI	135.000
○	.216	12.450	4.960			
□	.322					
◇	.518					

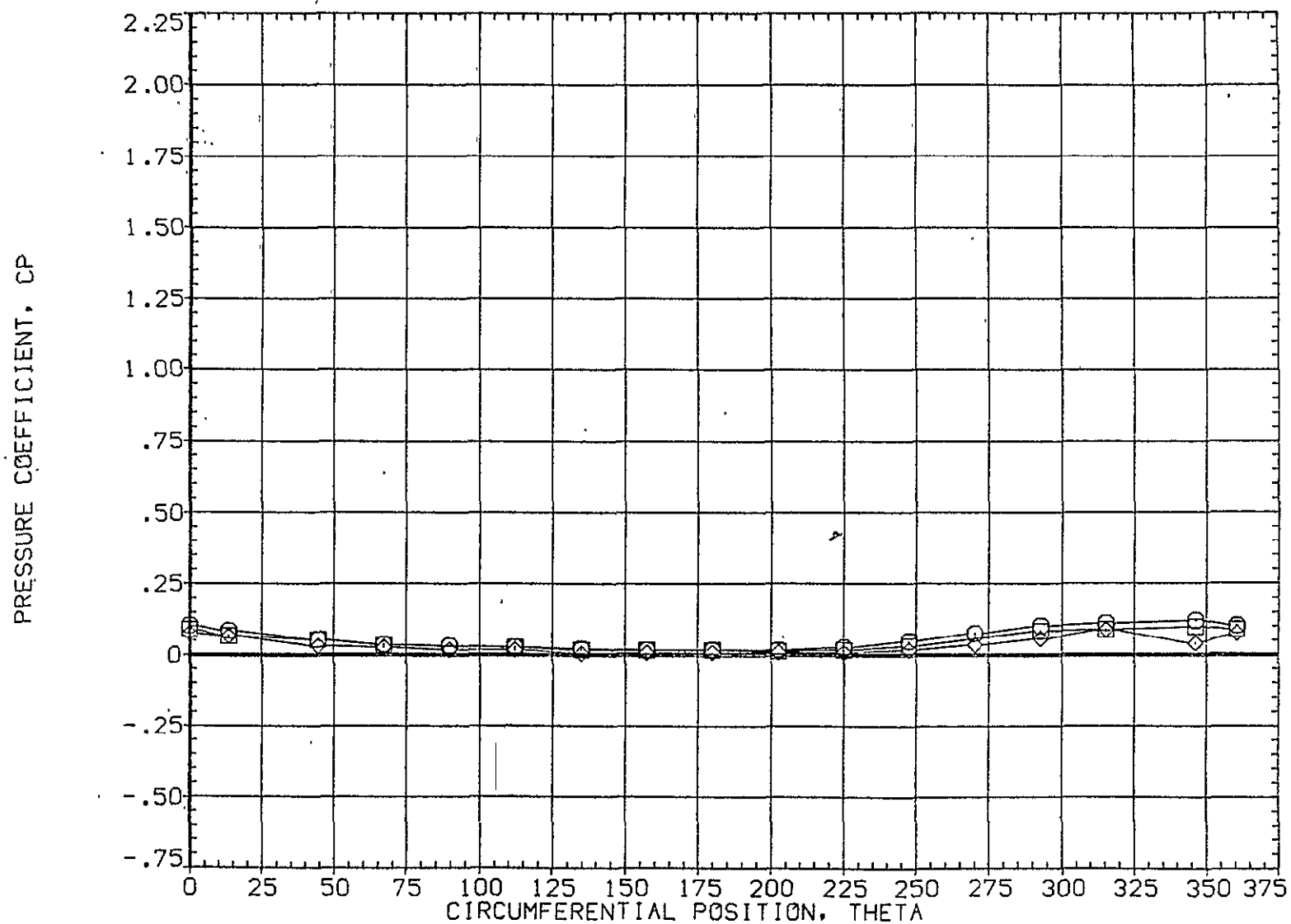


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A026)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	12.450	4.960	.000	20.000		
□	.735			1.000	135.000		
◇	.860						

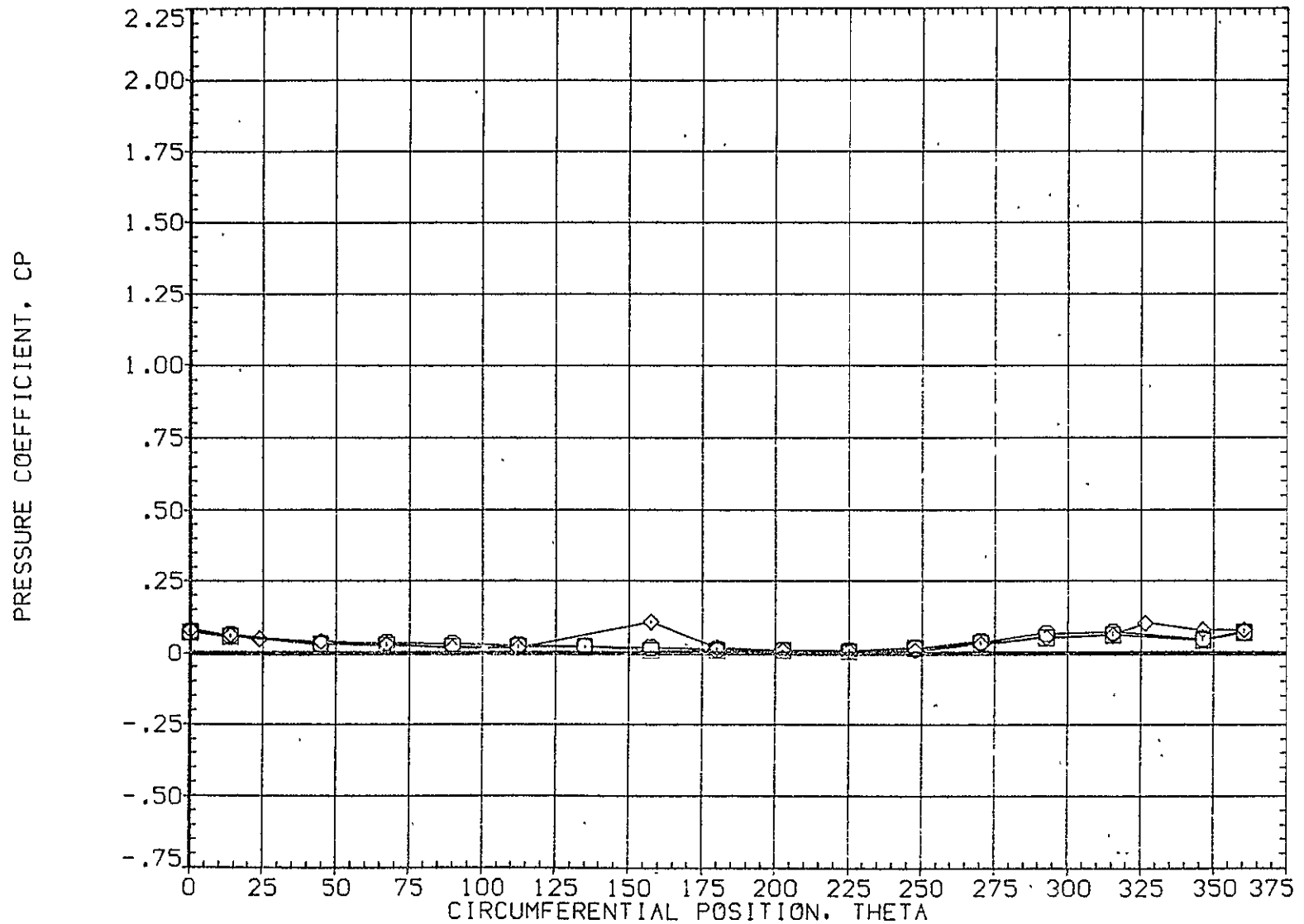


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

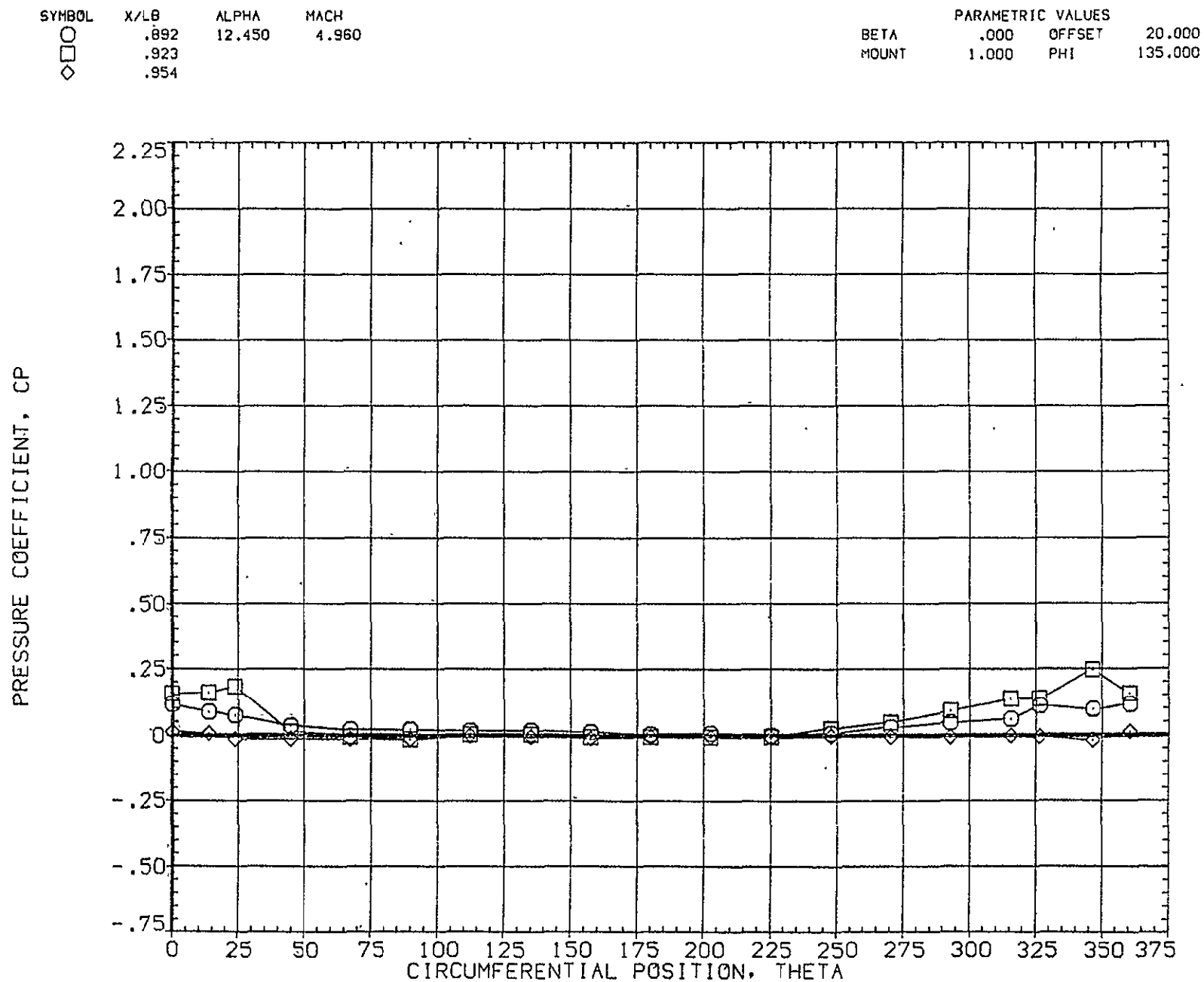


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

C
8

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A027)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
	.055	16.450	4.960	BETA	.000	OFFSET
	.108			MOUNT	1.000	PHI
◇	.162					20.000
						135.000

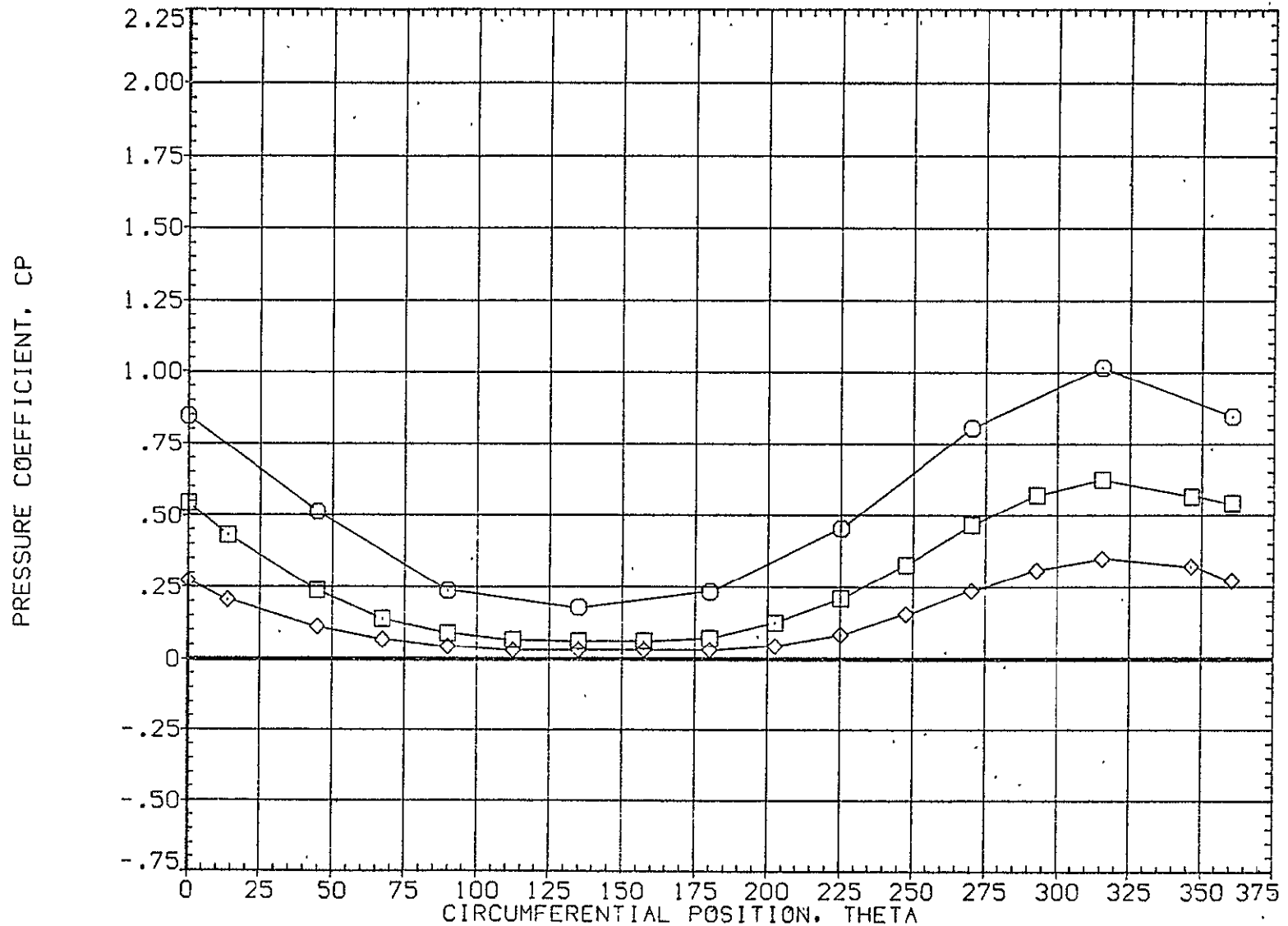


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
○	.216	16.450	4.960	MOUNT	1.000	PHI	135.000
□	.322						
◇	.518						

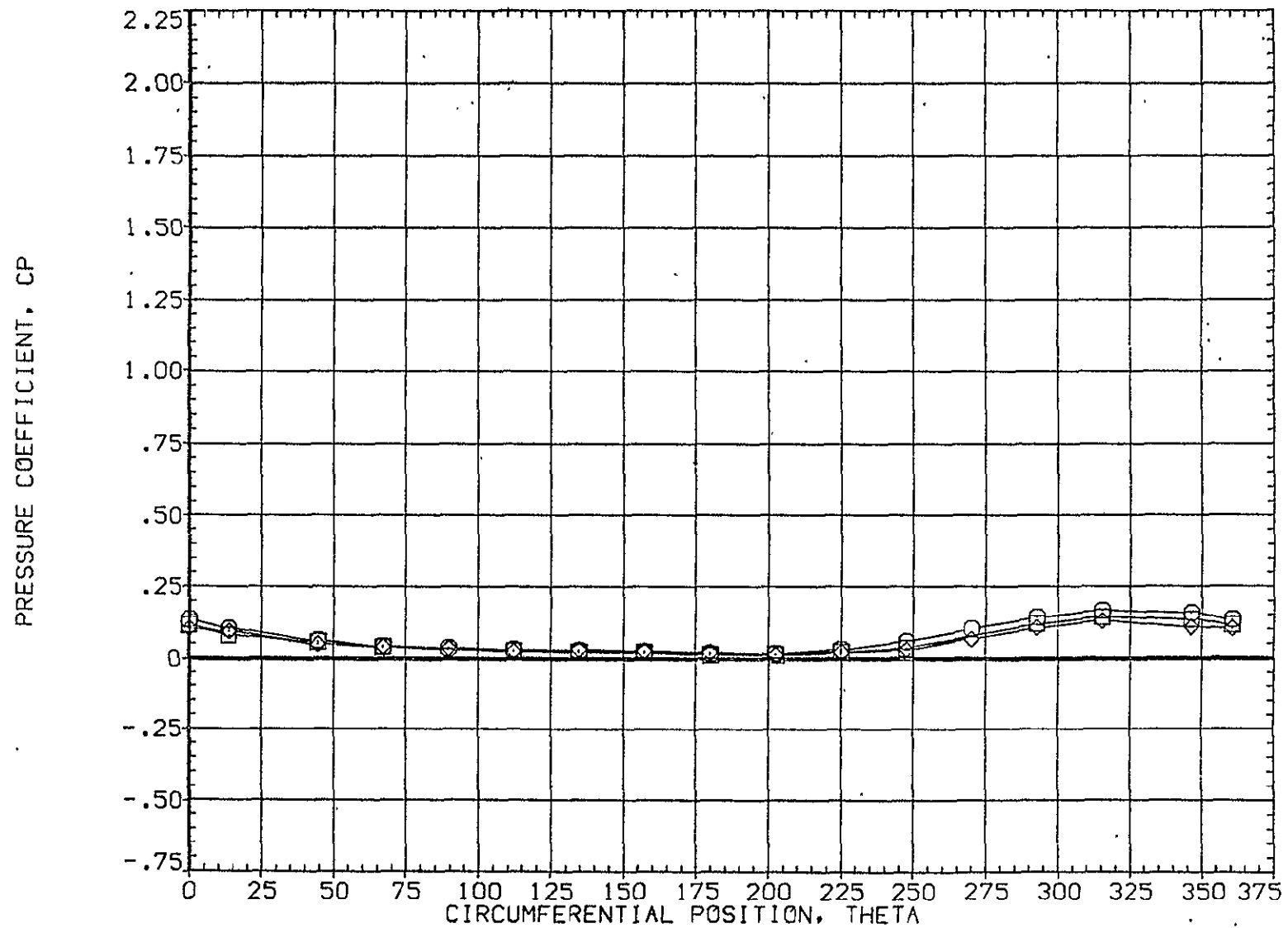


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	16.450	4.960	MOUNT	.000	PHI	20.000
□	.735				1.000		135.000
◇	.860						

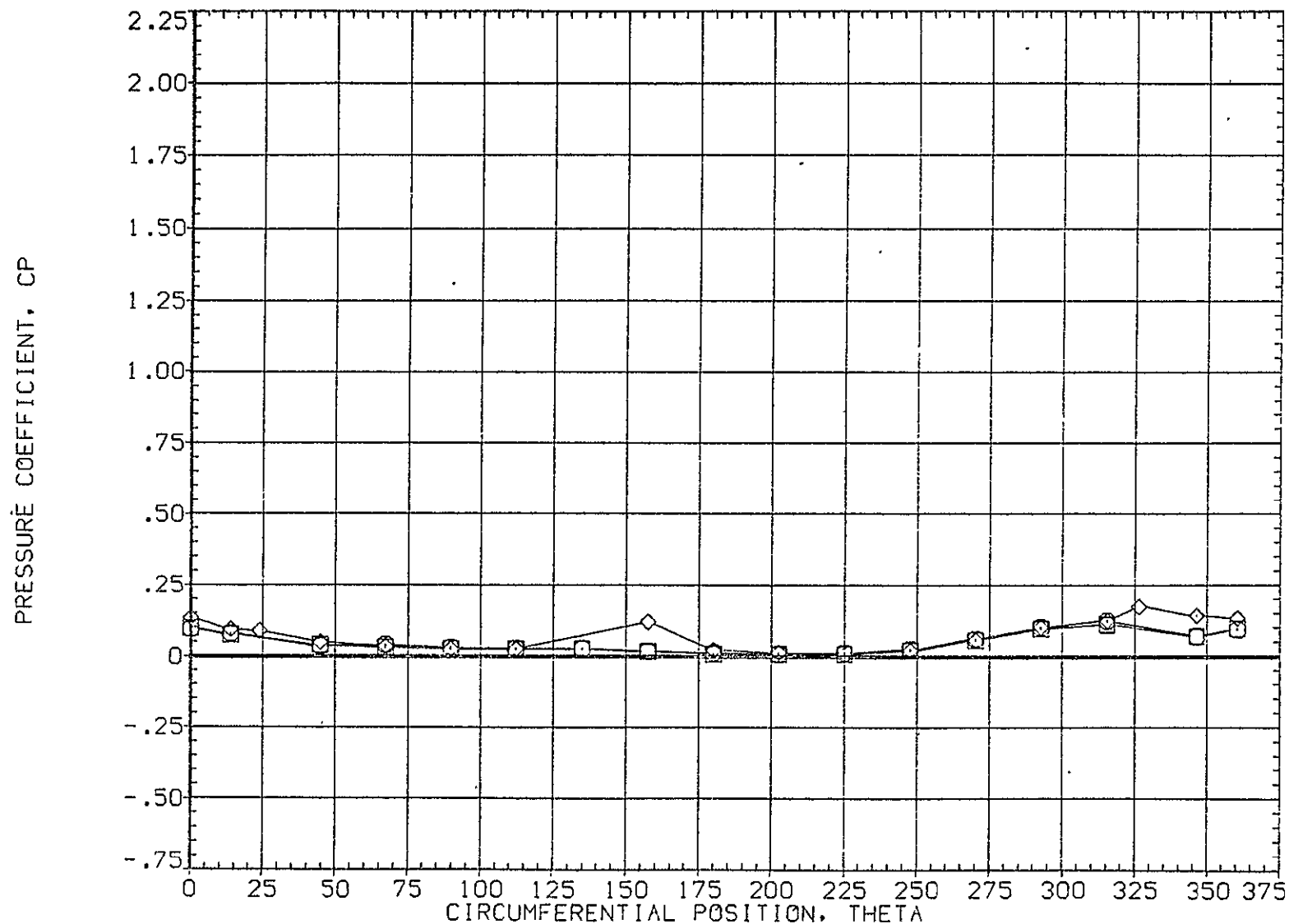


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	16.450	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 135.000

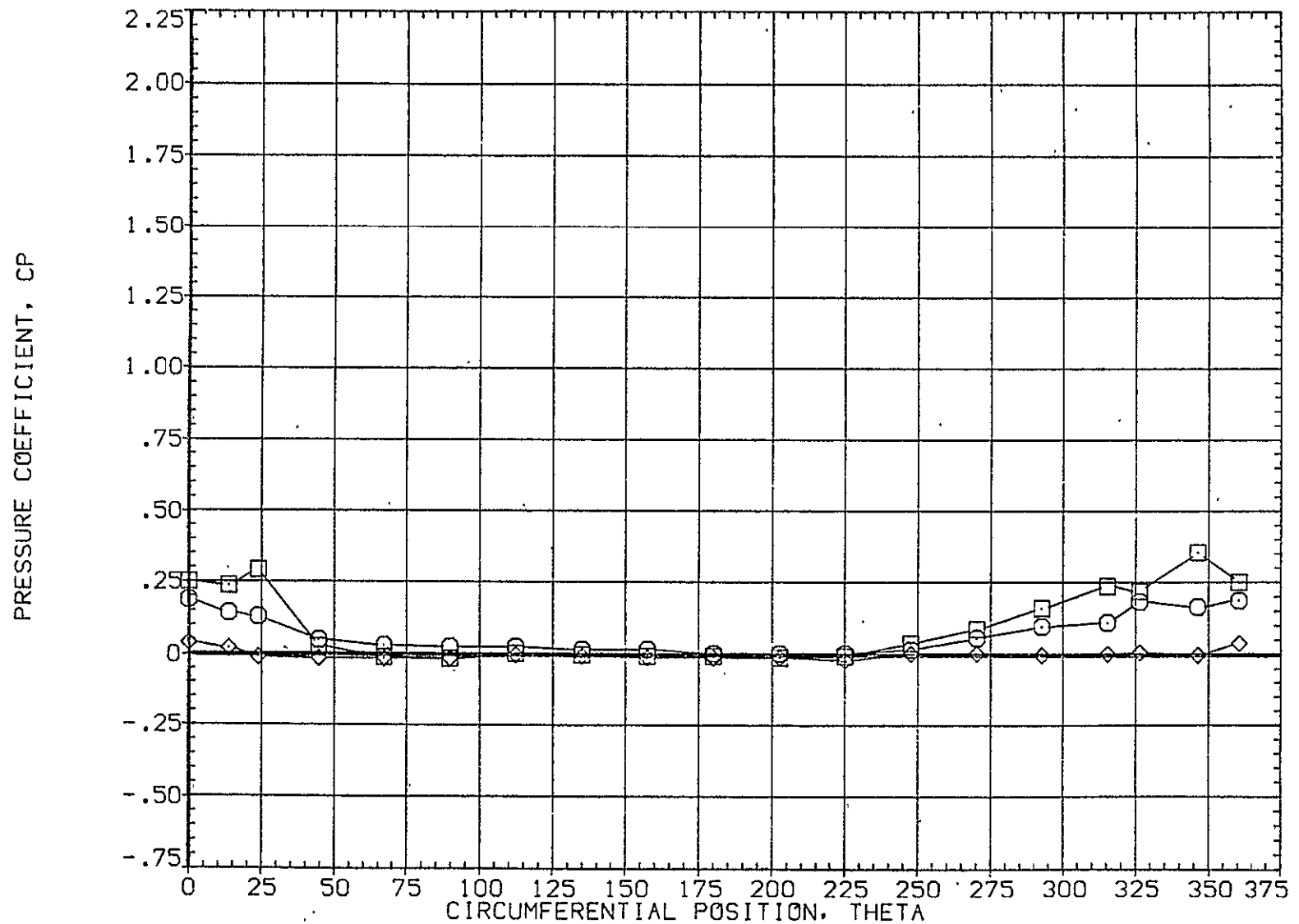


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	20.490	4.960				20.000
□	.108						
◇	.162						
				1.000	1.000		135.000

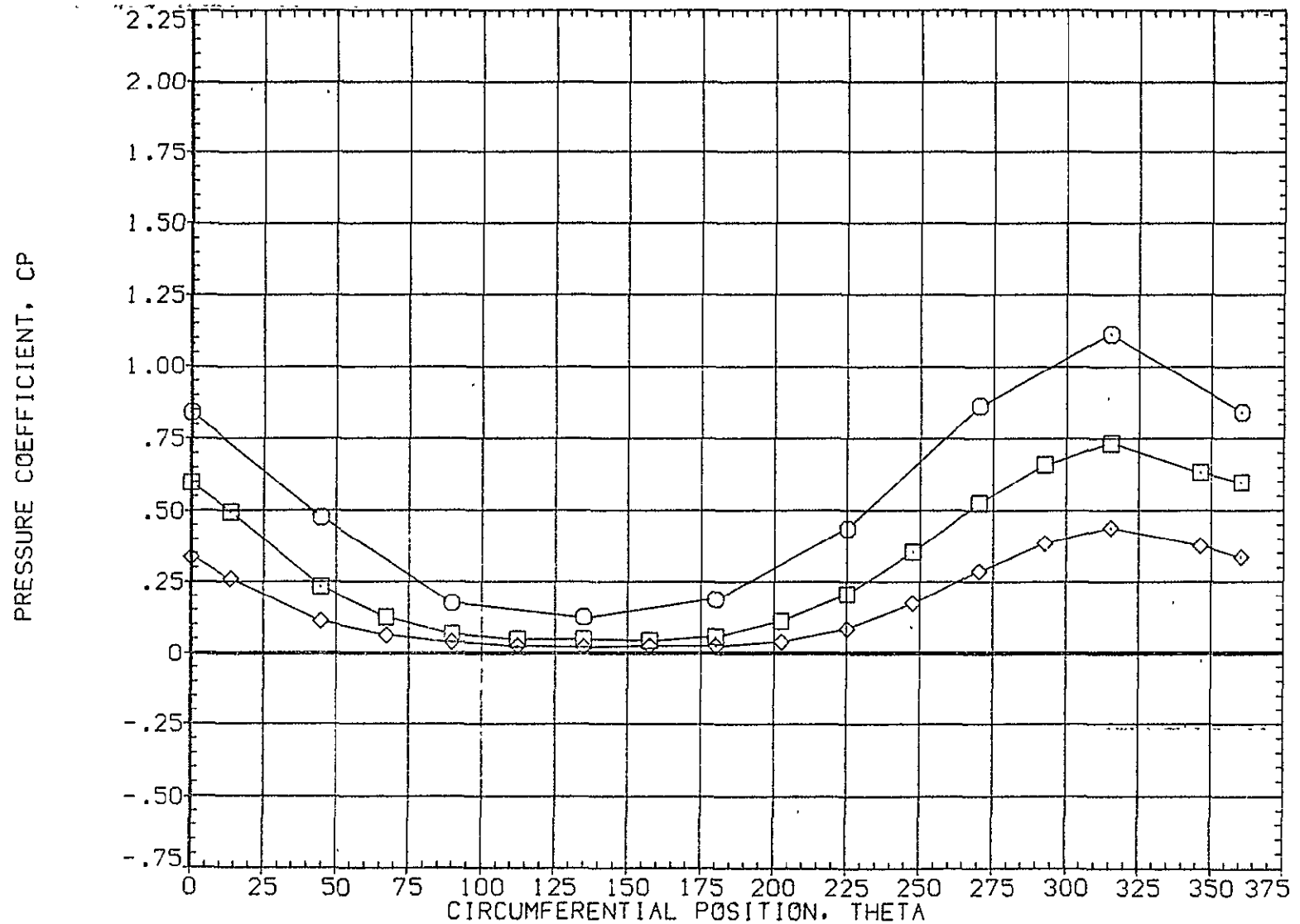


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL
○
□
◇X/LB
.216
.322
.518ALPHA
20.490MACH
4.960BETA
MOUNT

PARAMETRIC VALUES

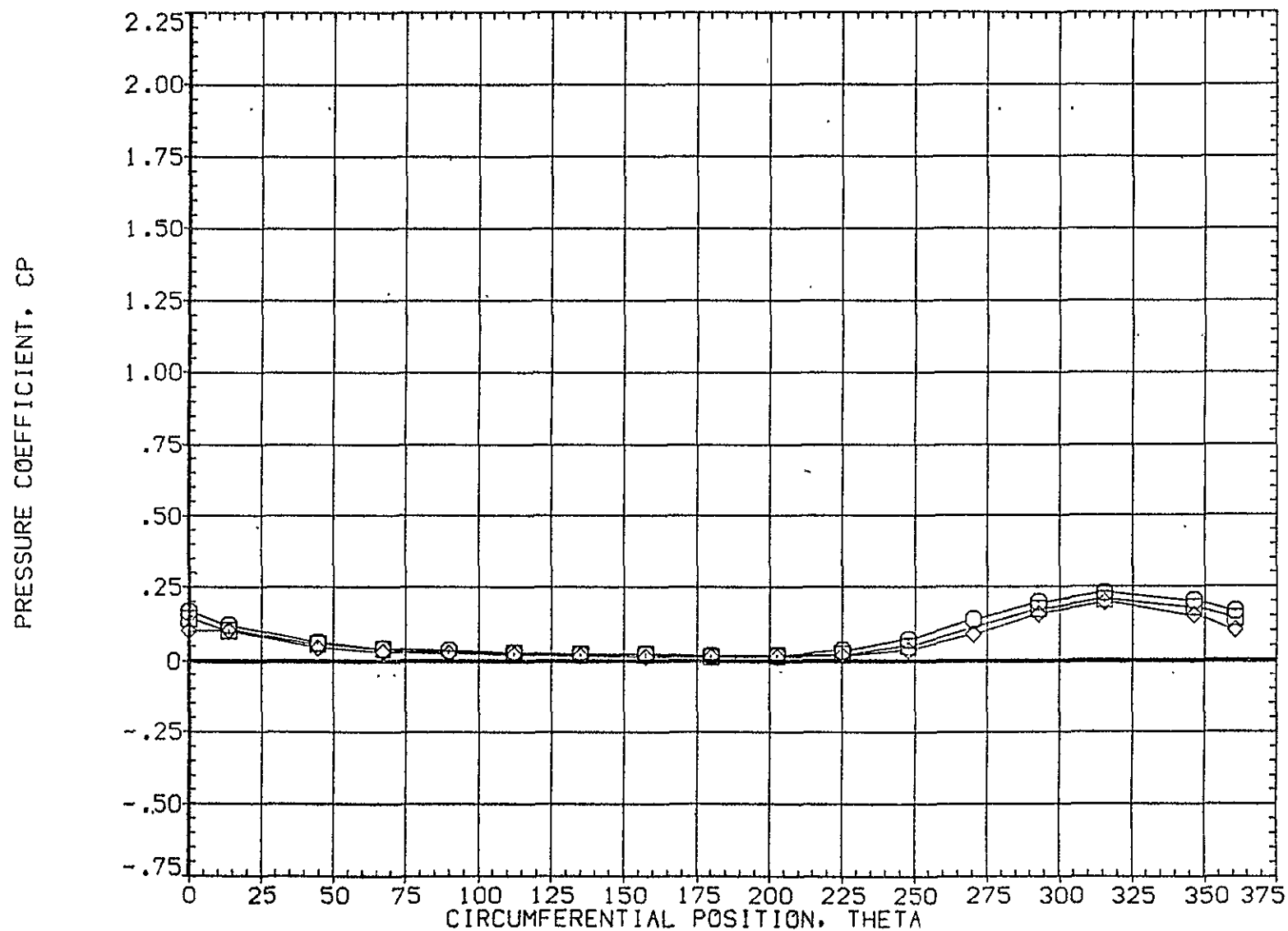
.000
1.000OFFSET
PHI20.000
135.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.610	20.490	4.960	MOUNT	1.000	PHI 135.000
□	.735					
◇	.860					

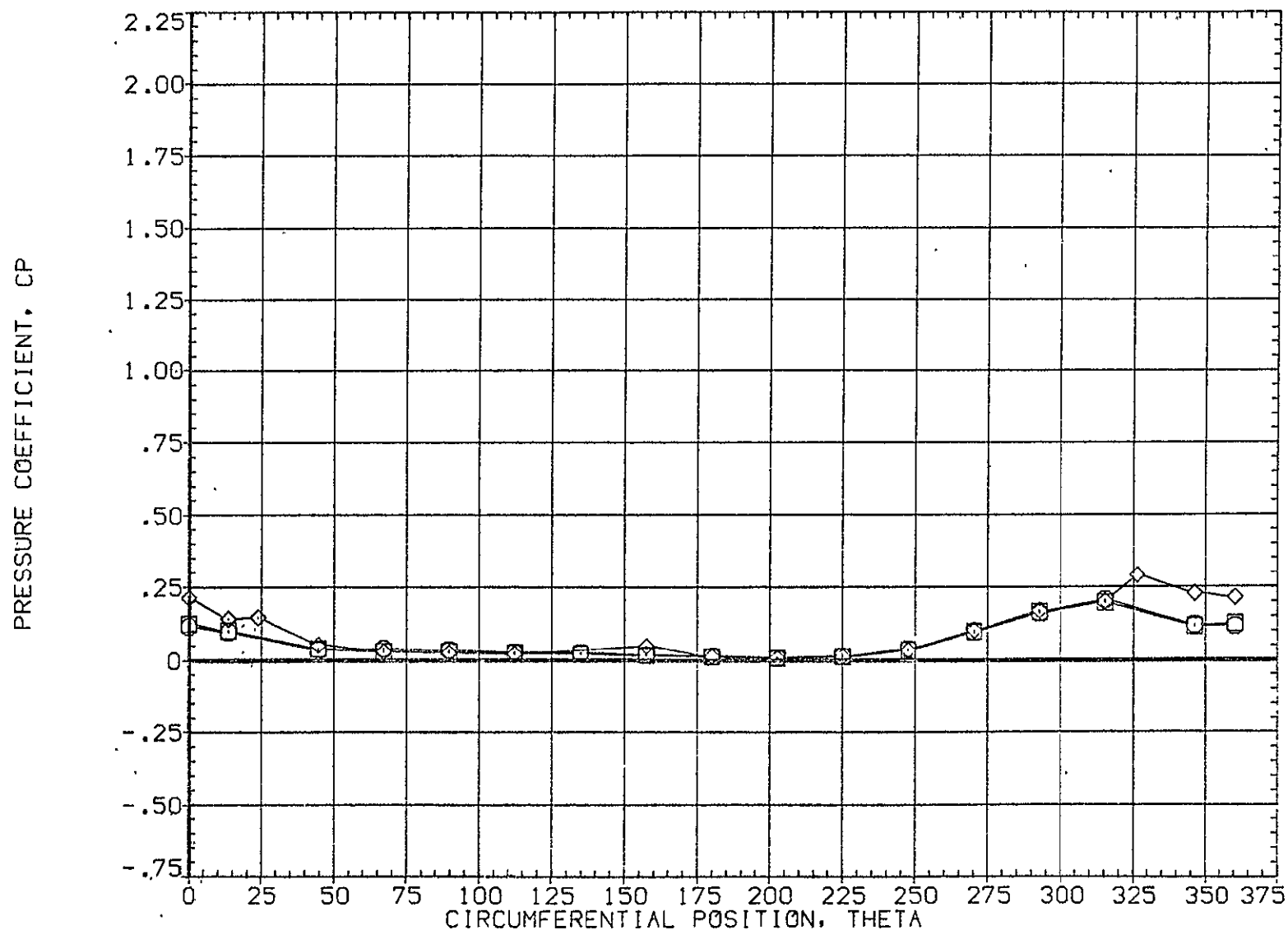


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	20.000	
○	.892	20.490	4.960	MOUNT	1.000	PHI	135.000
□	.923						
◇	.954						

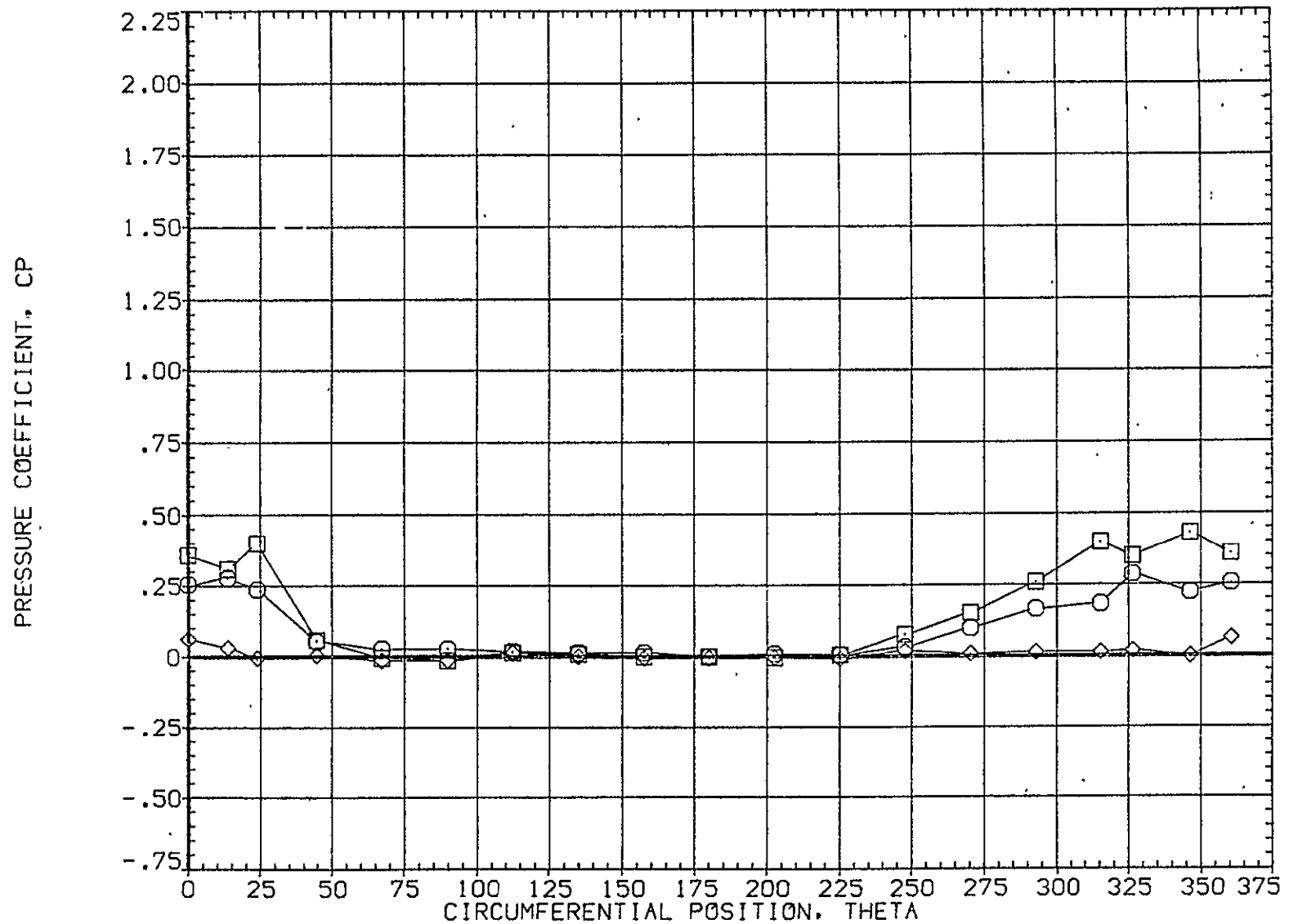


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	24.510	4.960	MOUNT	.000	PHI	135.000
□	.108				1.000		
◇	.162						

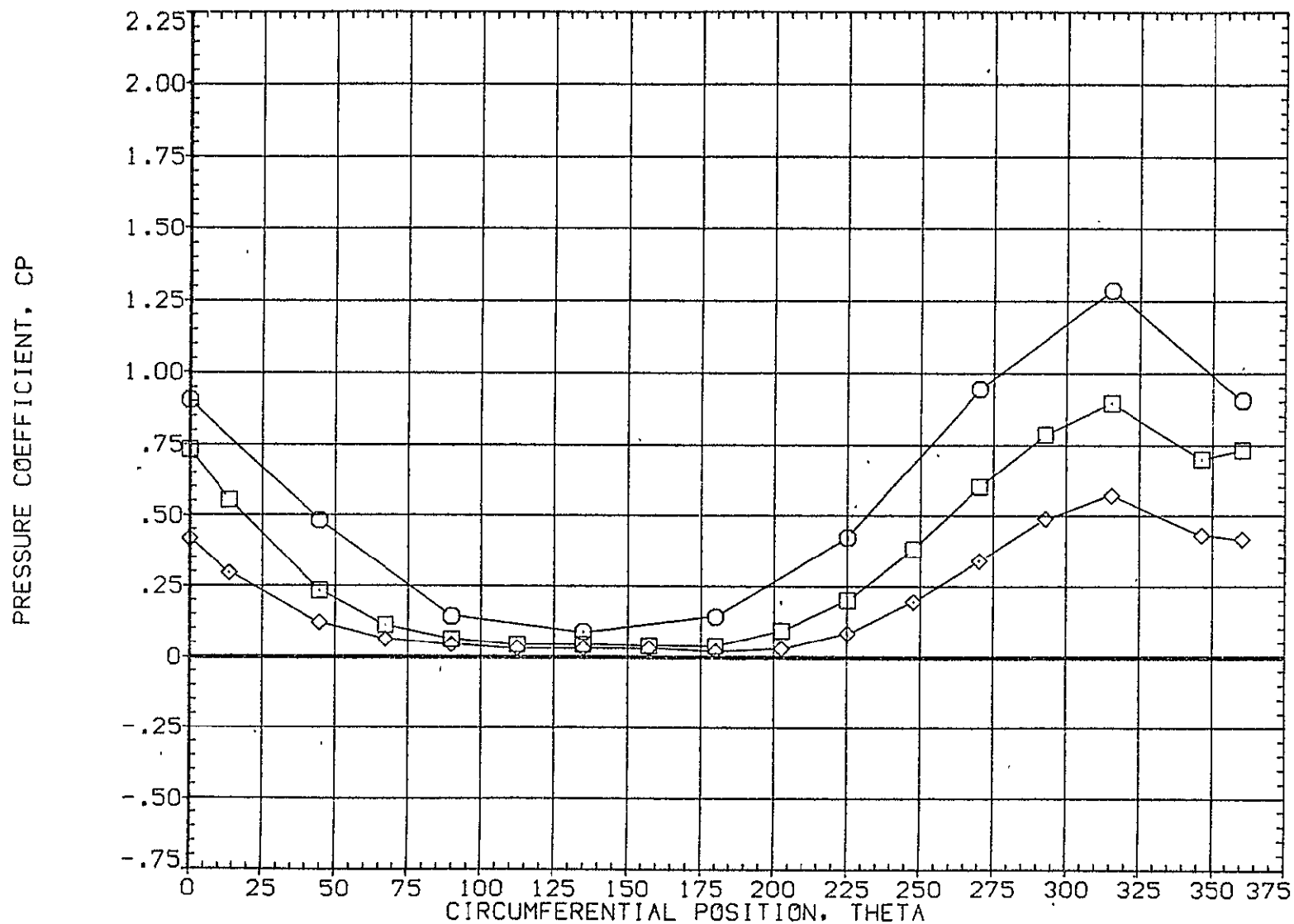


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	24.510	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 135.000

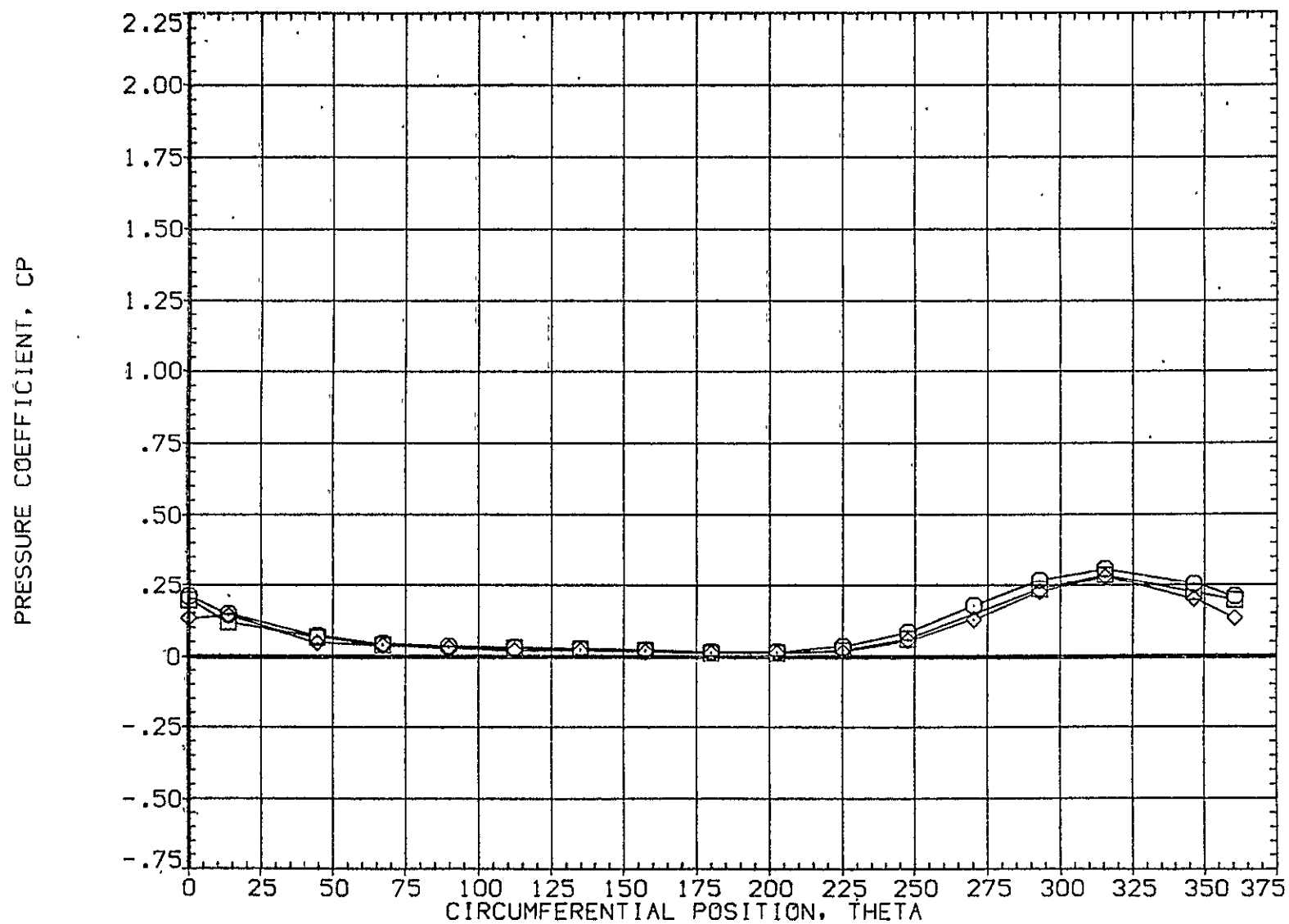


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A029)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	24.510	4.960				20.000
□	.735			MOUNT	1.000		135.000
◇	.860						

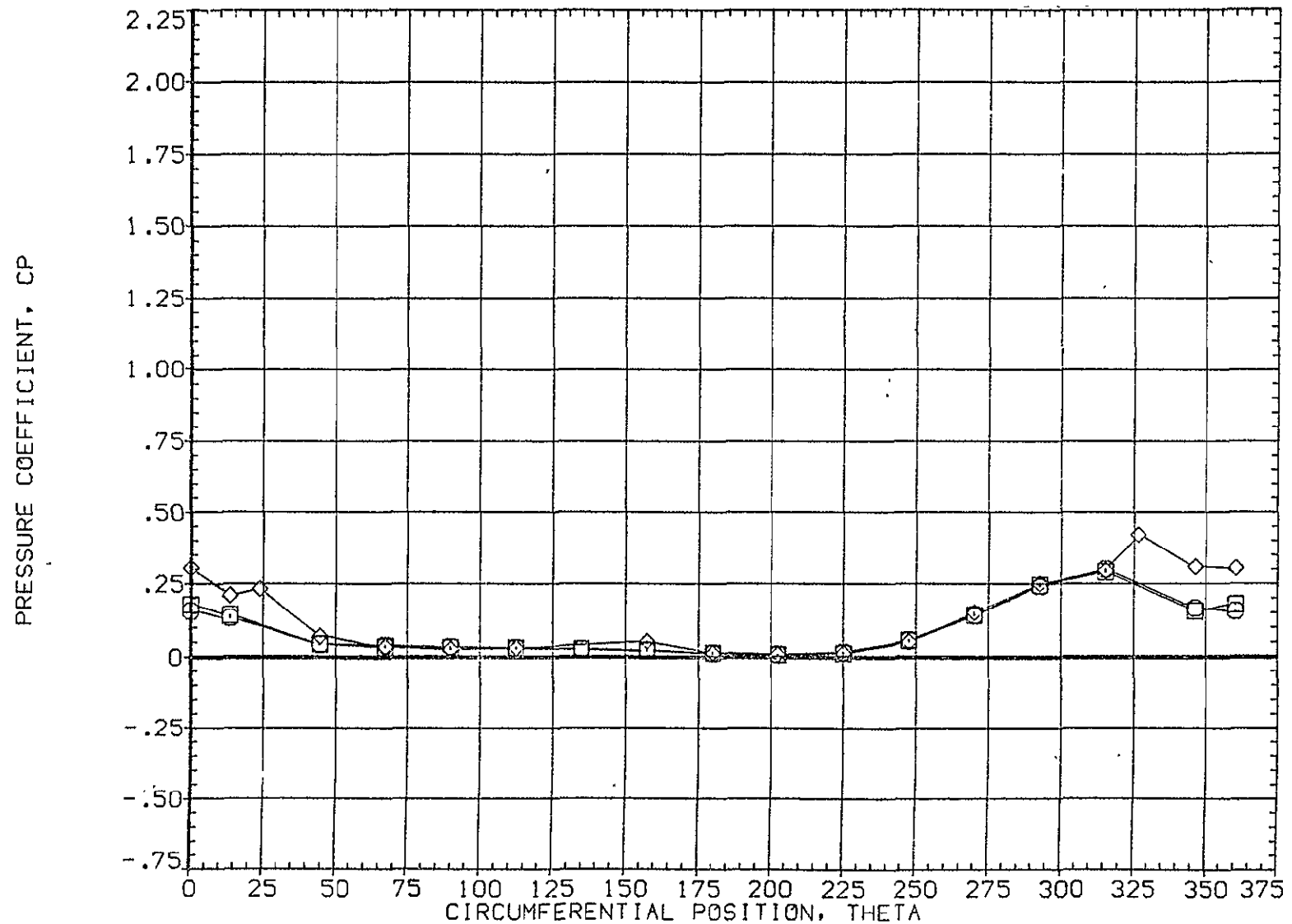


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	24.510	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 135.000

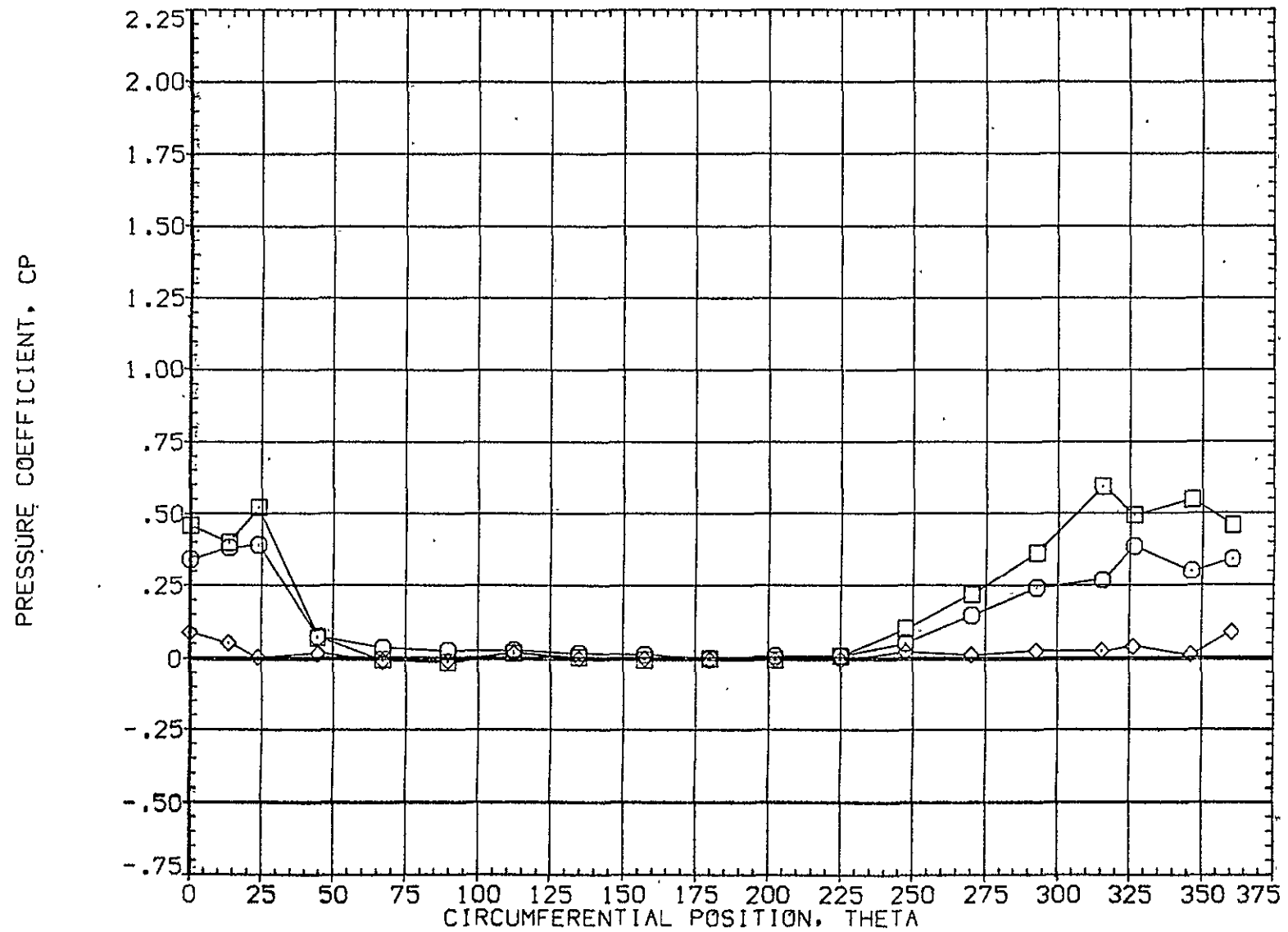


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A030)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	28.510	4.960	MOUNT	.000		20.000
□	.108				1.000		135.000
◇	.162						

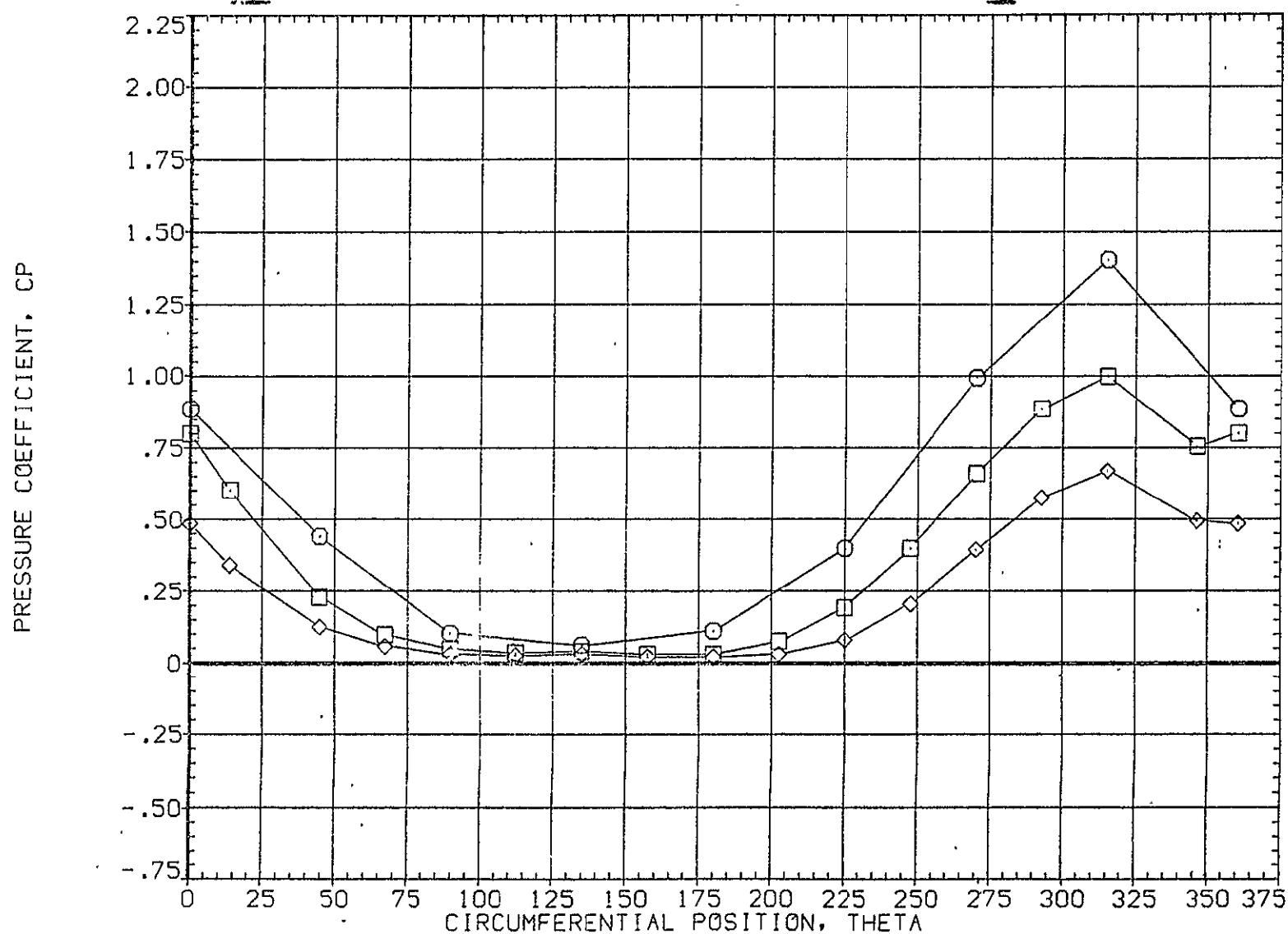


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	28.510	4.960	.000	20.000	
□	.322			1.000	PHI	135.000
◇	.518					

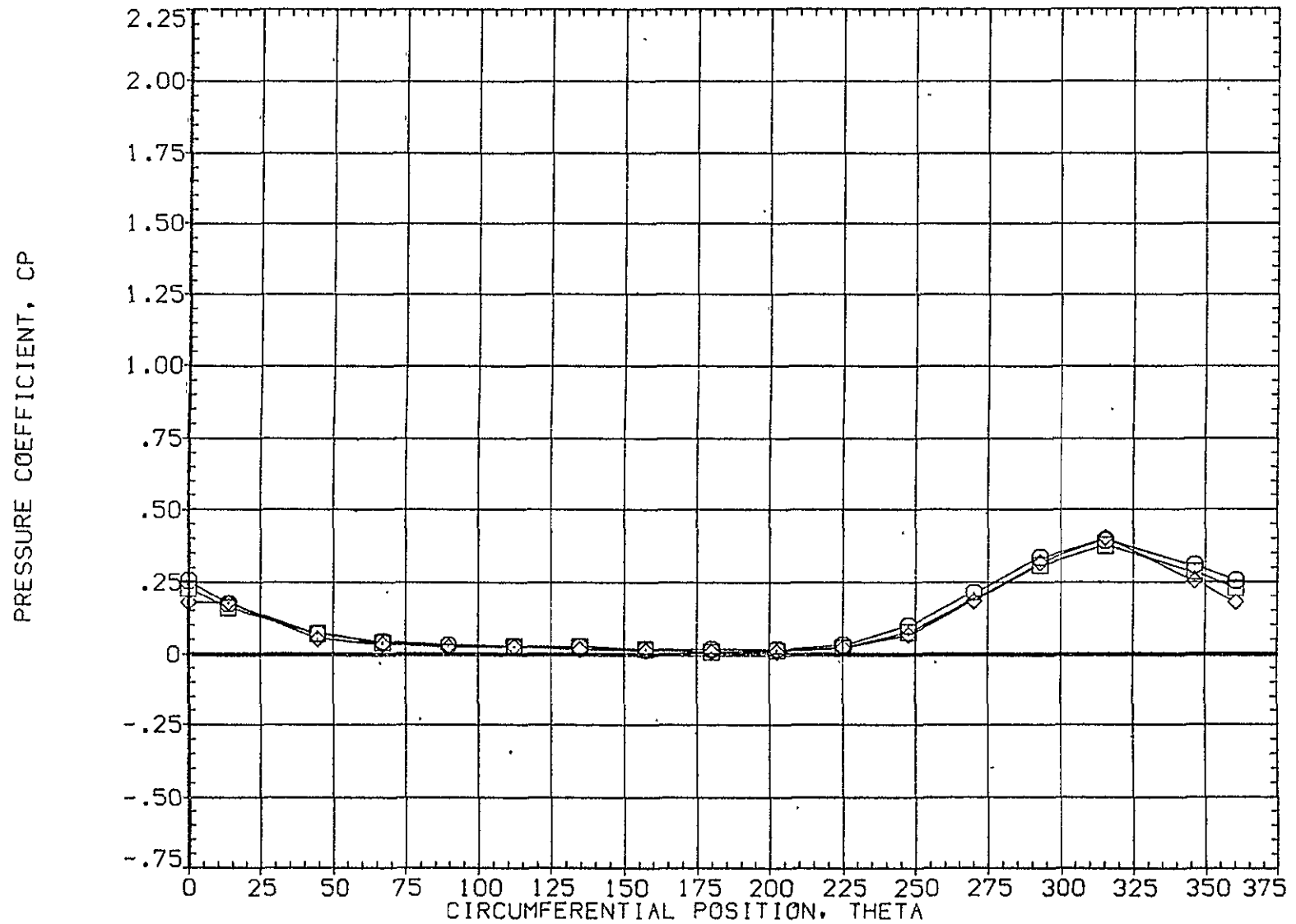


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.610	29.510	4.960		20.000	
□	.735			MOUNT	1.000	PHI
◇	.860					135.000

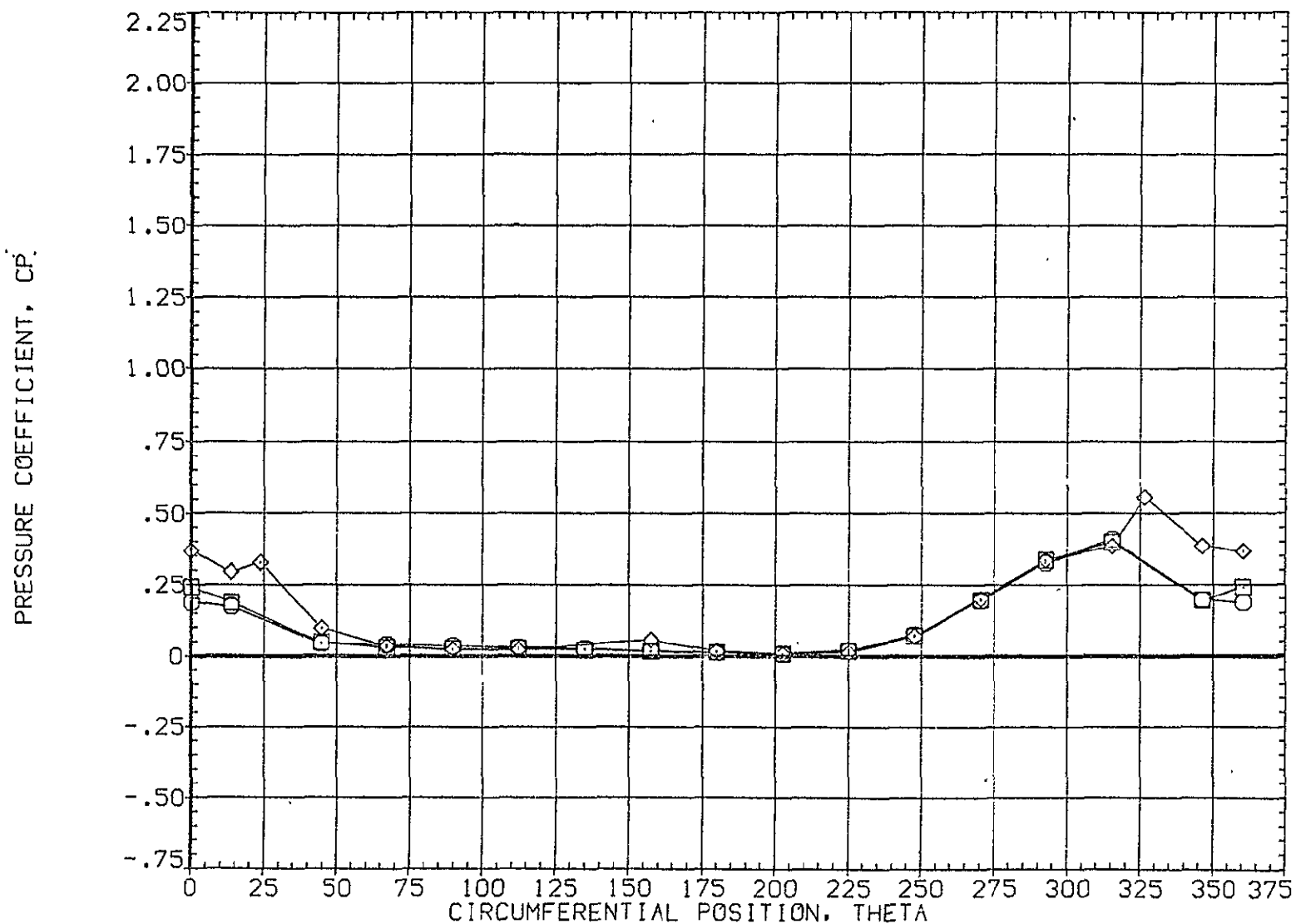


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.892	28.510	4.960	BETA	.000	OFFSET 20.000
□	.923			MOUNT	1.000	PHI 135.000
◇	.954					

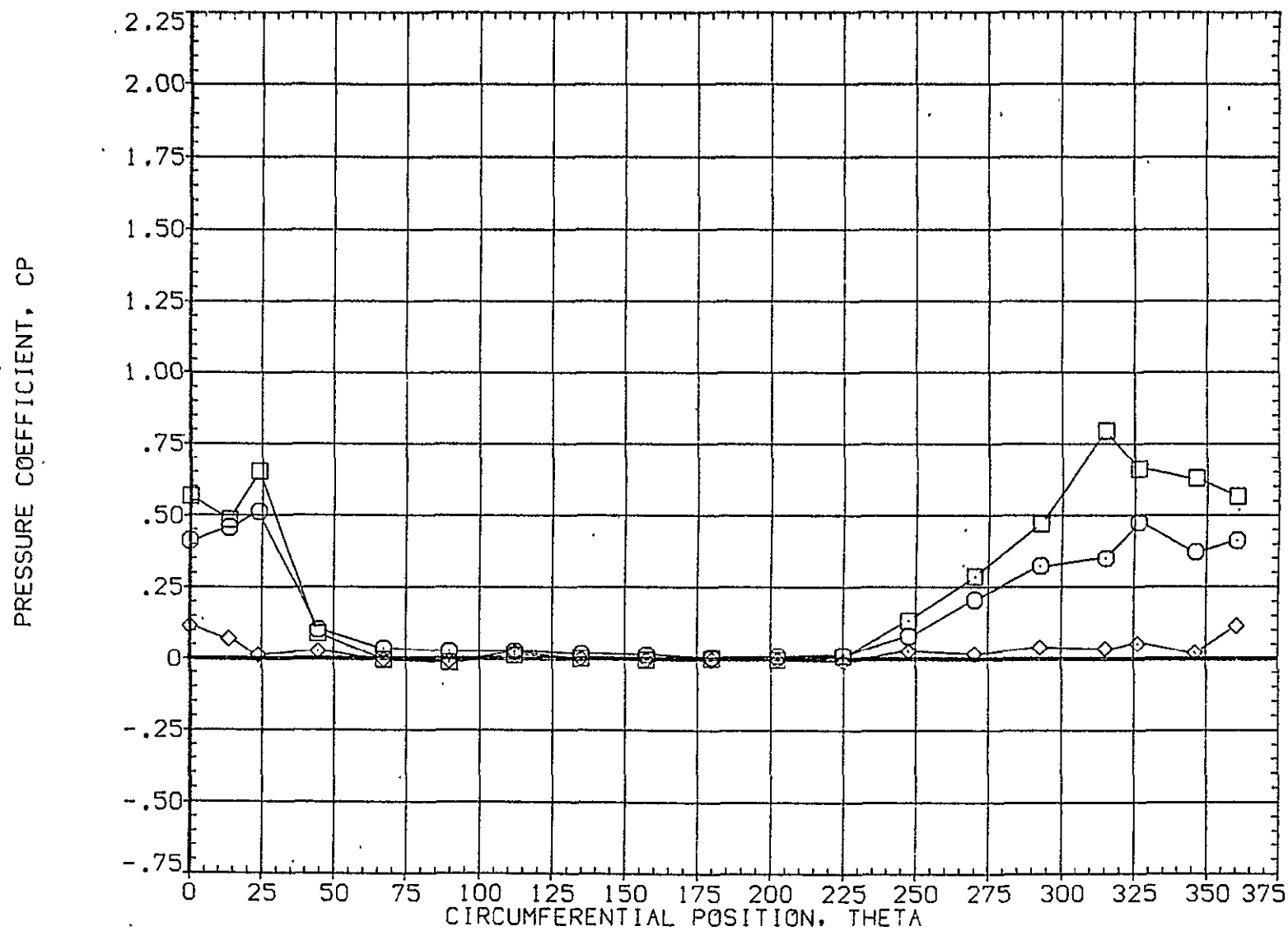


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-8.290	4.960	.000	1.000	PHI	.000
□	.108						180.000
◇	.162						

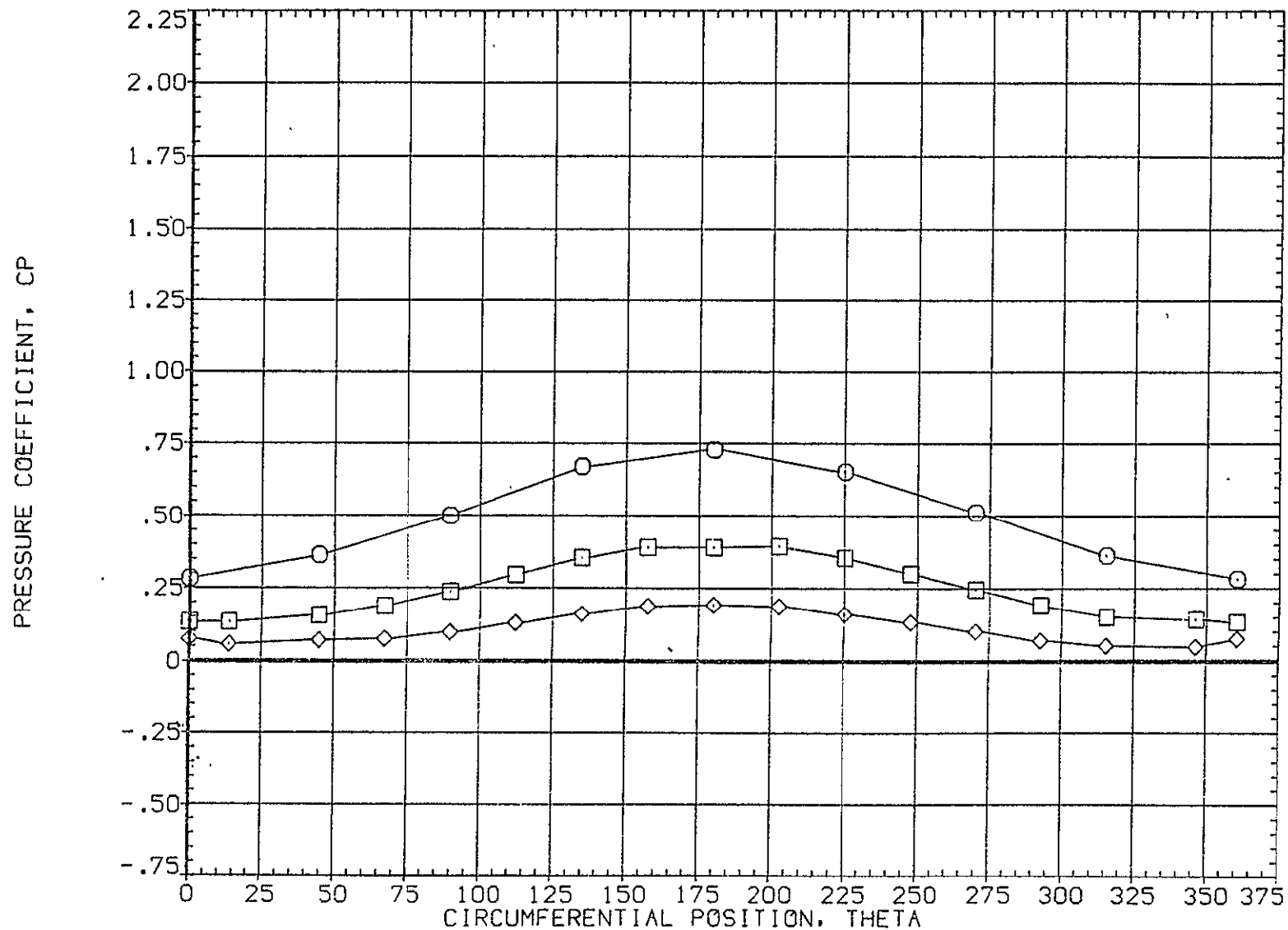


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	OFFSET PHI
○	.216	-8.290	4.960	.000	.000	.000
□	.322			1.000	180.000	
◇	.518					

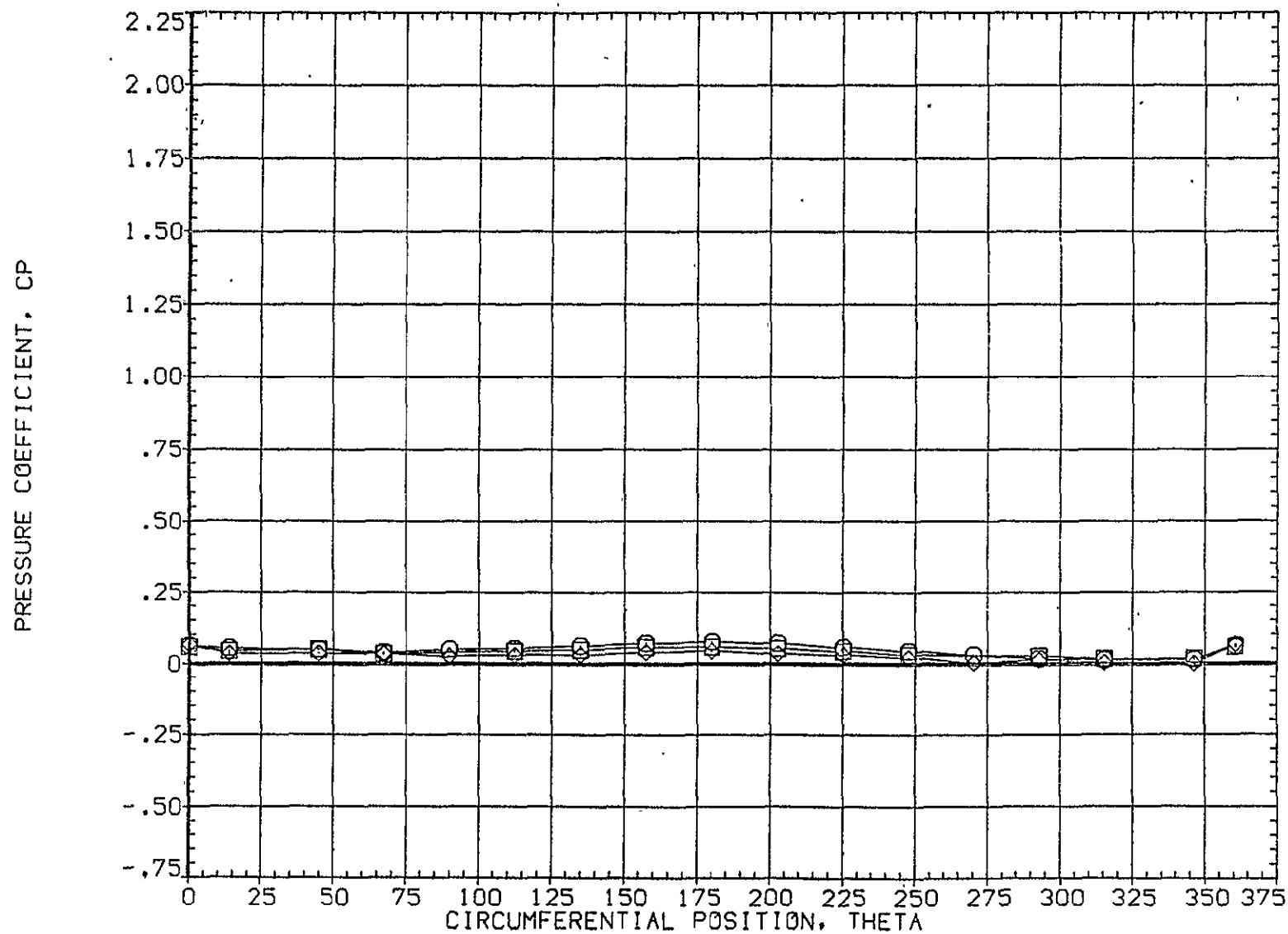


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A031)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	-8.290	4.960	BETA	.000	OFFSET	.000
□	.735			MOUNT	1.000	PHI	180.000
◇	.860						

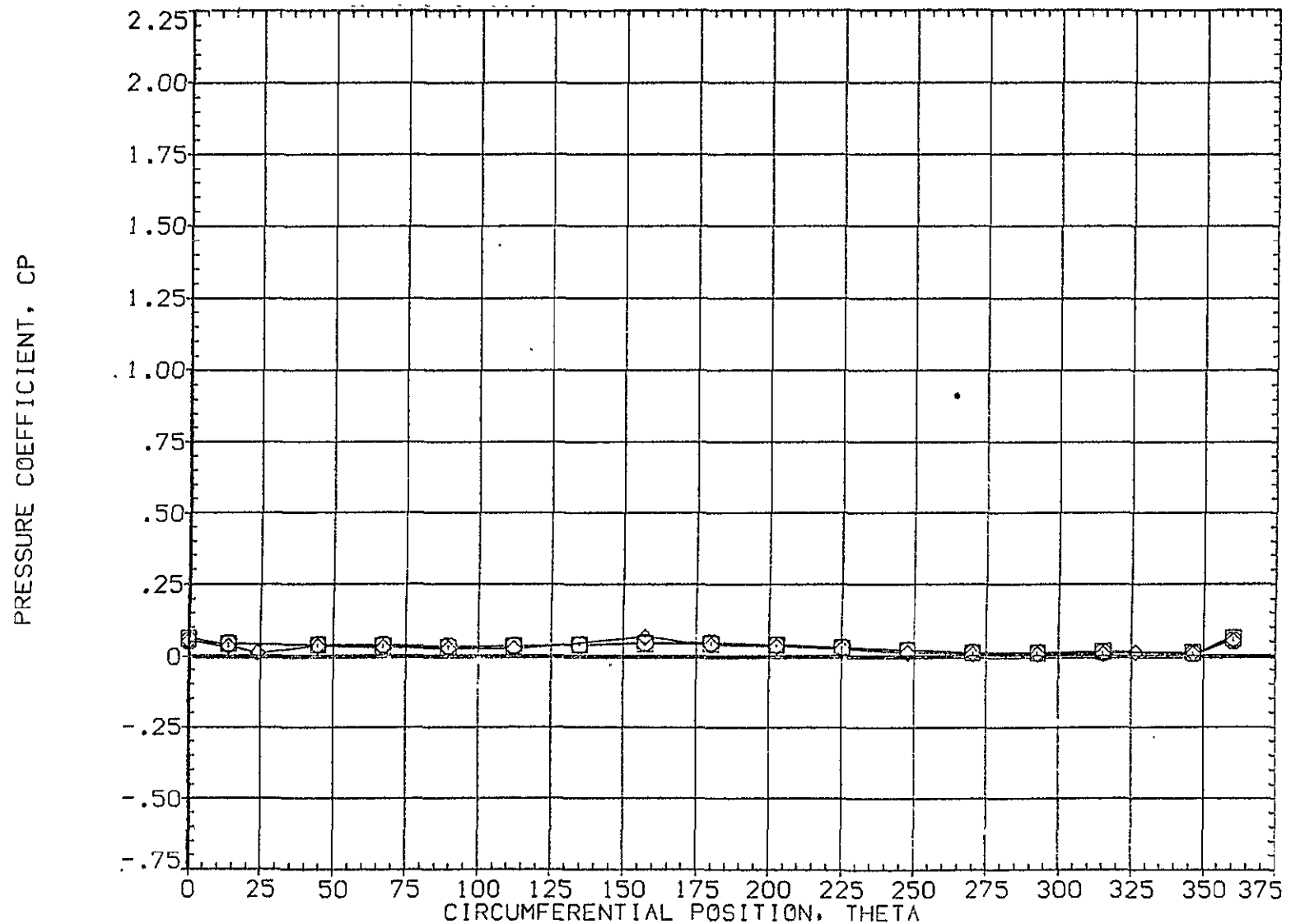


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.892	-8.290	4.960	.000	OFFSET .000
□	.923			1.000	PHI 180.000
◇	.954				

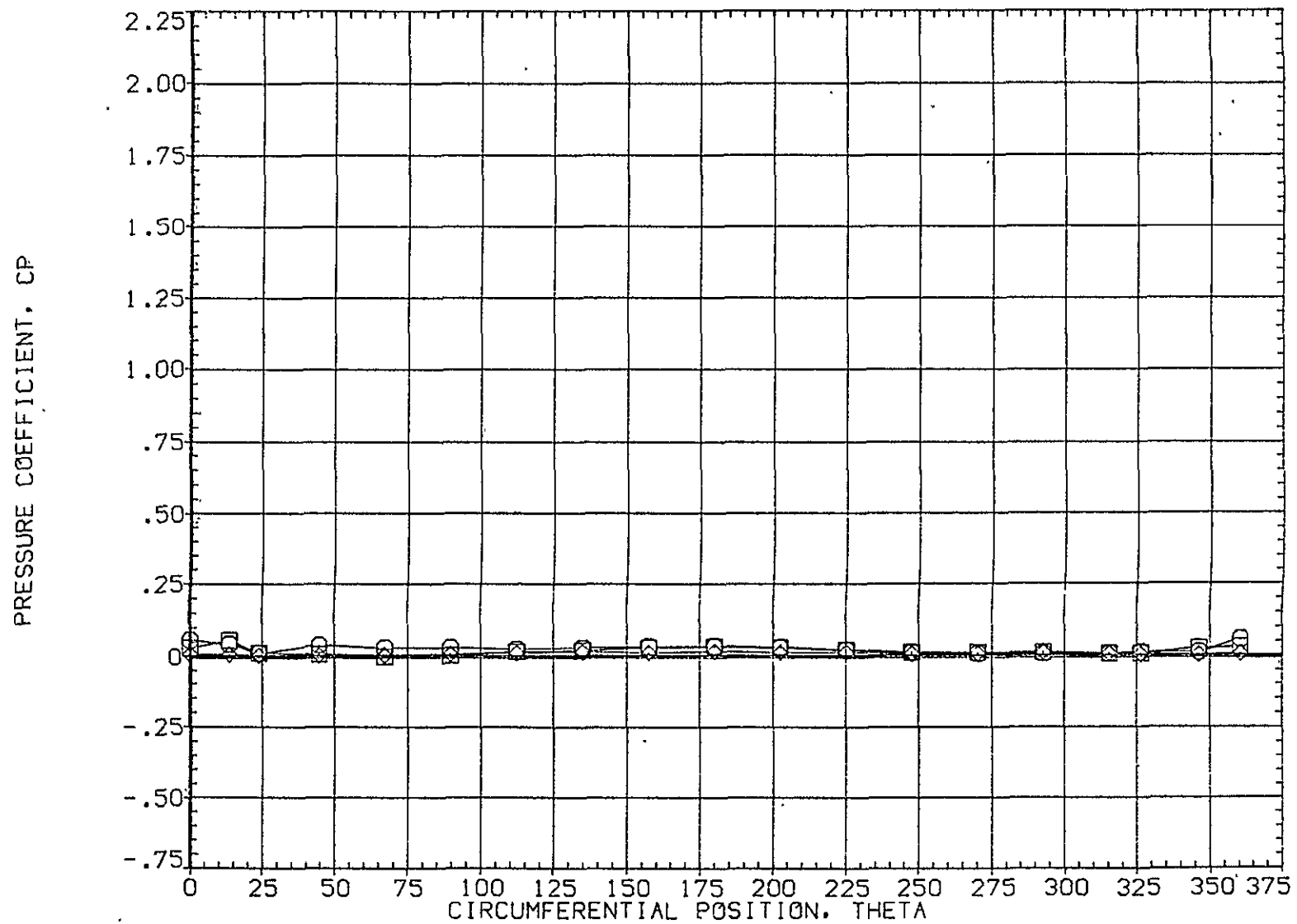


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A032)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES				
	○	.055	-4.290	4.960	BETA	.000	OFFSET	.000
	□	.108			MOUNT	1.000	PHI	180.000
◇	.162							

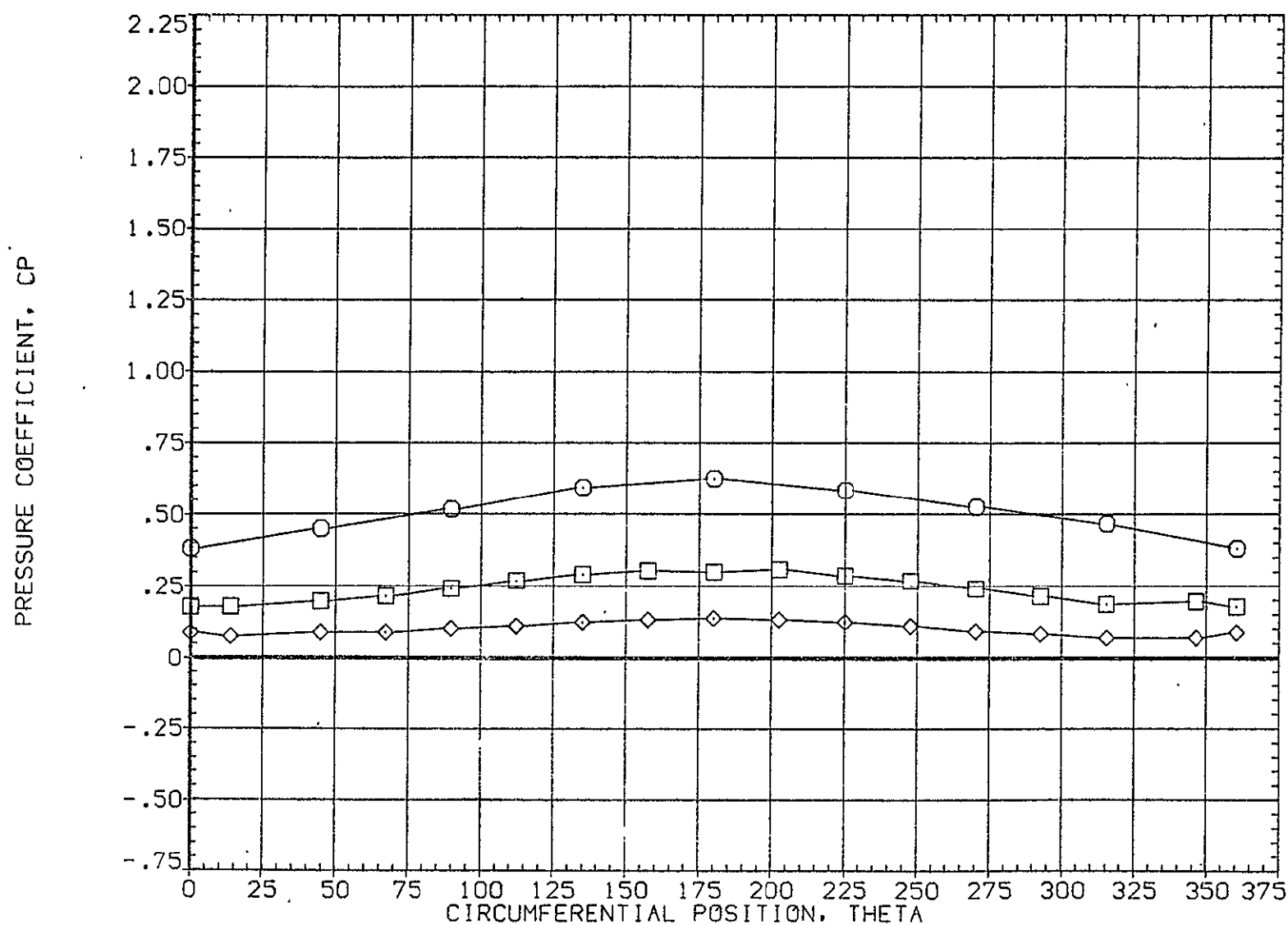


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
◇	.216	-4.290	4.960	MOUNT	.000	.000	
□	.322				1.000	PHI	180.000
◇	.518						

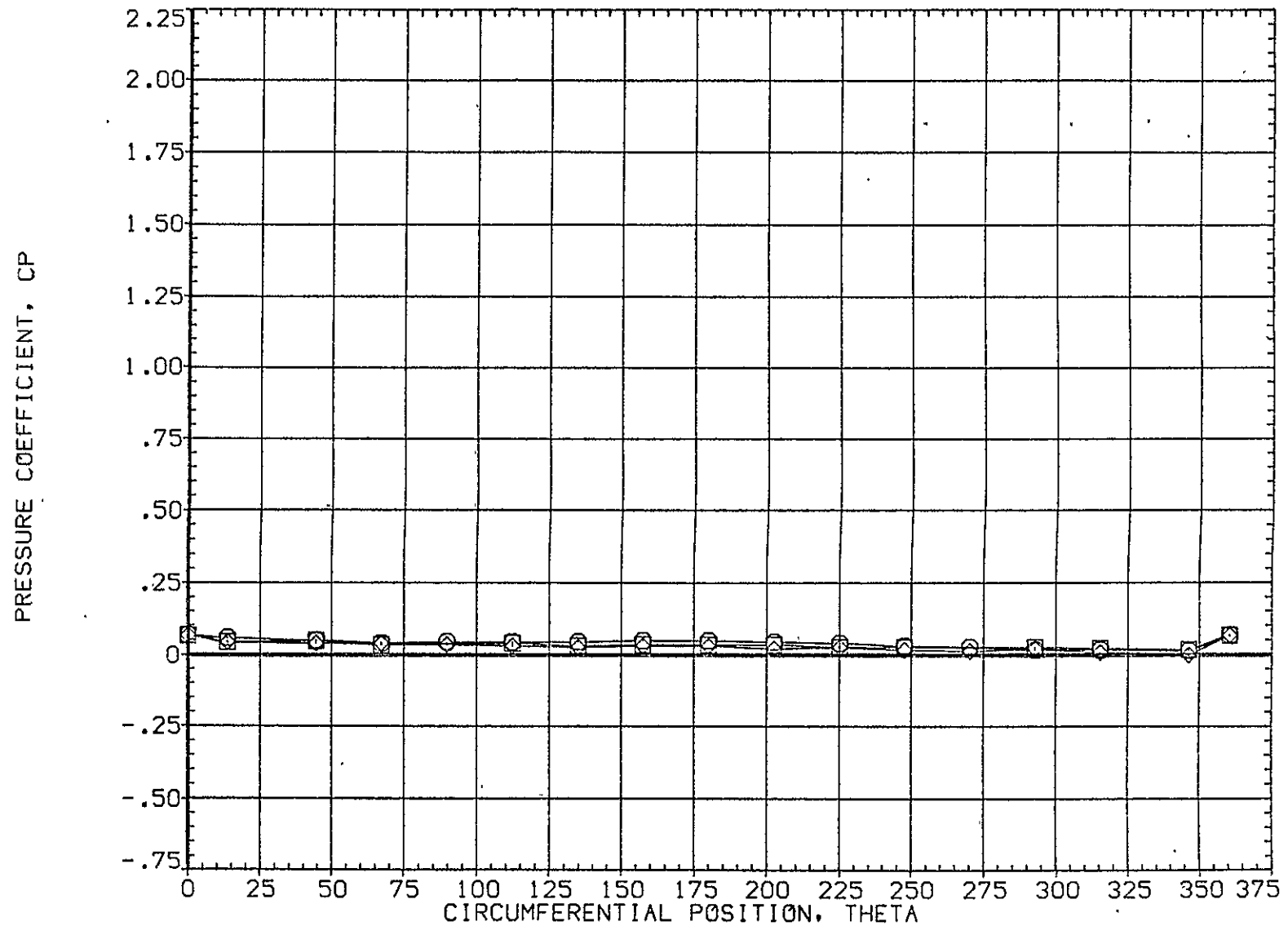


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A032)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-4.290	4.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	180.000
◇	.860						

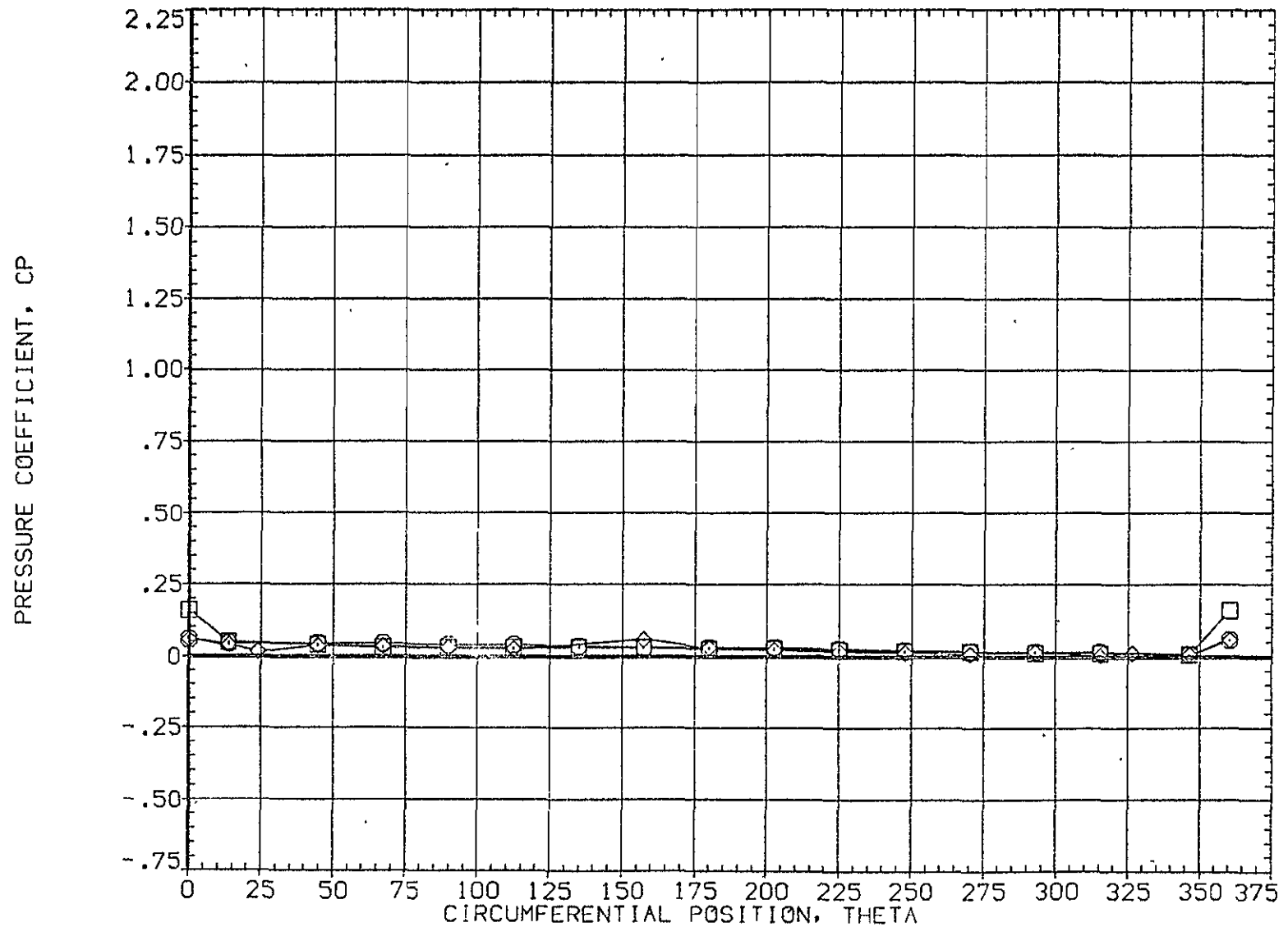


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-4.290	4.960	.000	.000	
□	.923			1.000	PHI	180.000
◇	.954					

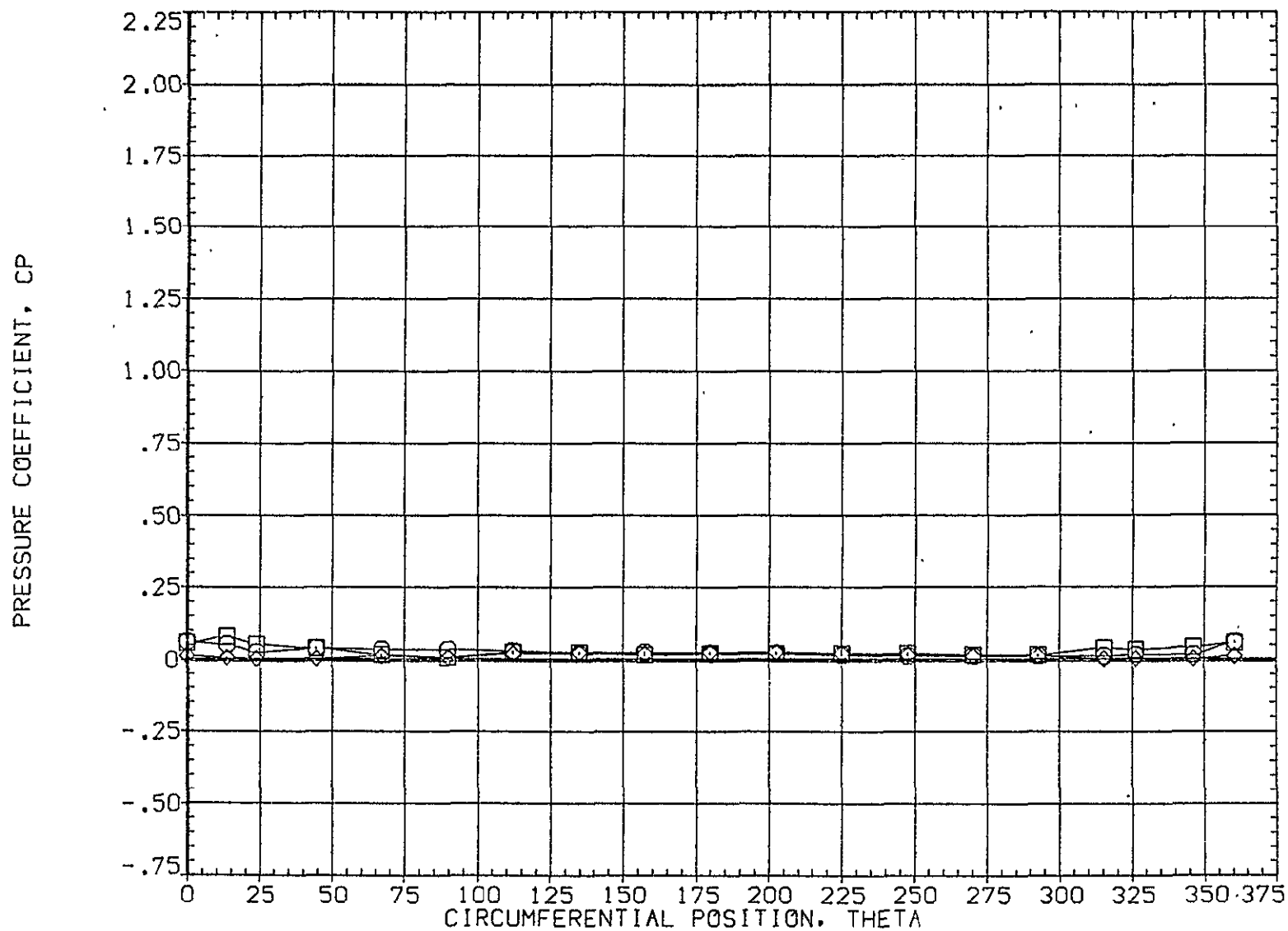


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A033)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	-.280	4.960	MOUNT	.000	.000	
□	.108				1.000	PHI	180.000
◇	.162						

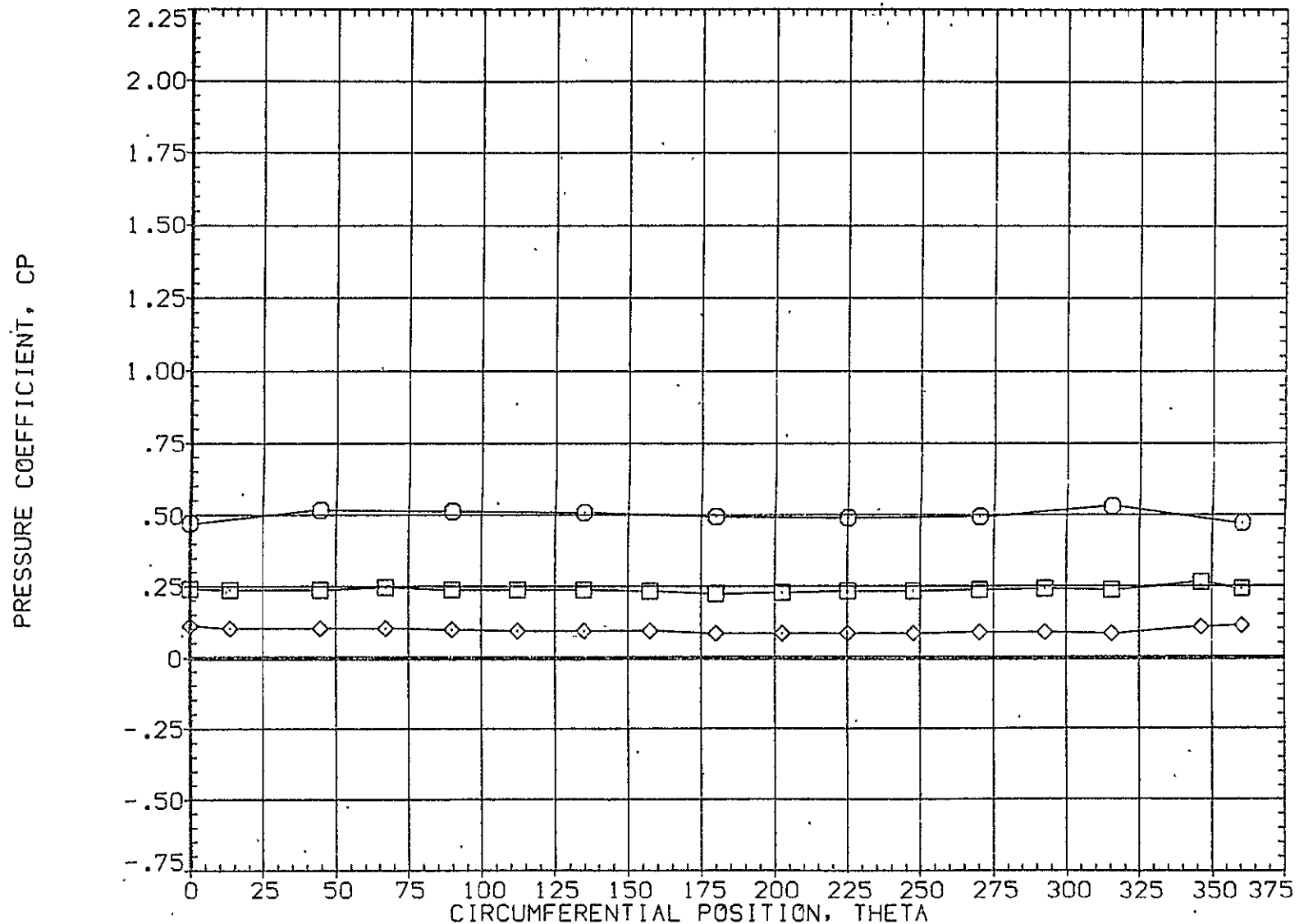


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.216	-.280	4.960	.000	.000	.000
□	.322			1.000	180.000	
◇	.518					

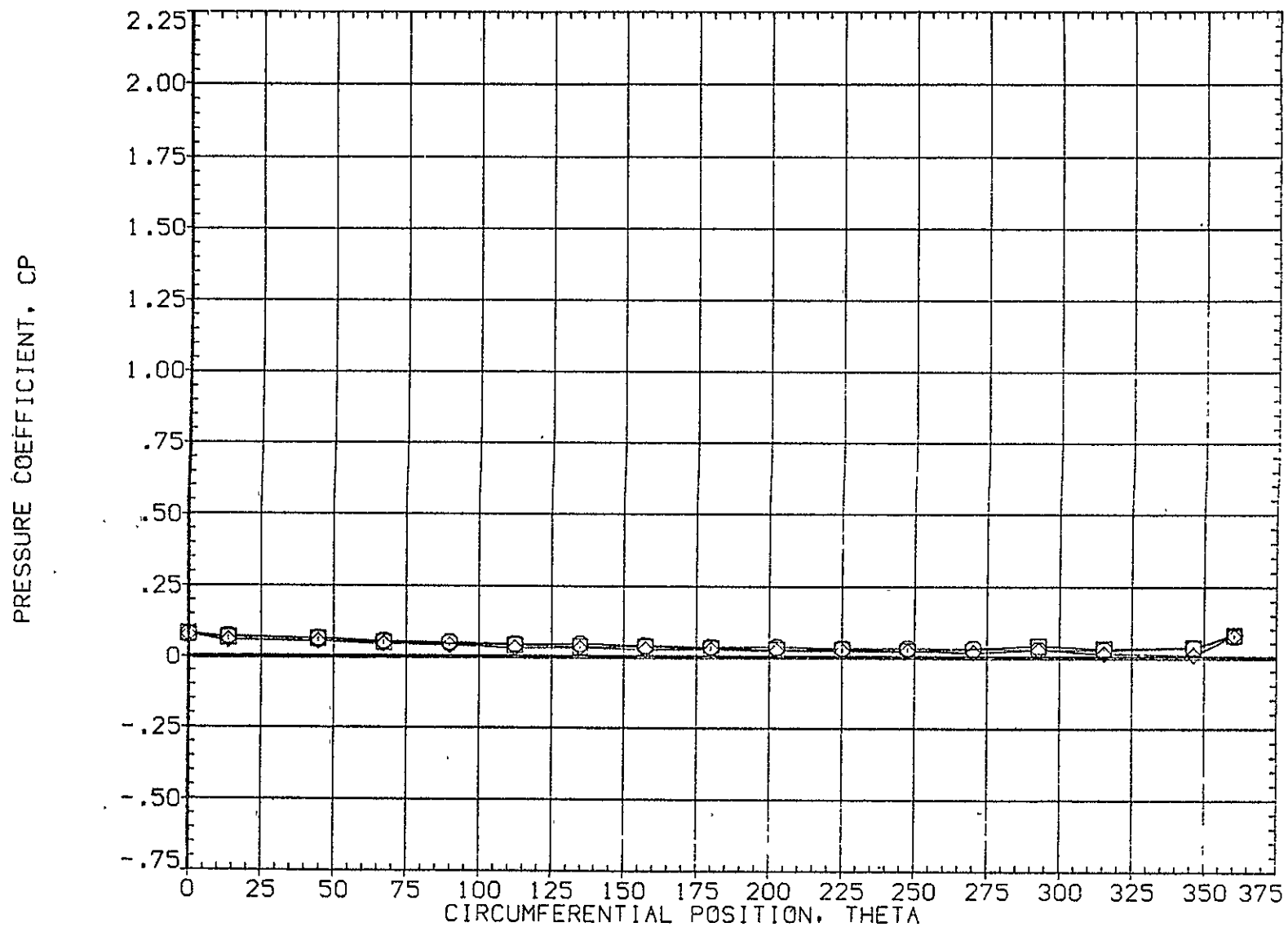


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK. T1

(P1A033)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES				
	○	.610	-.280	4.960	BETA	.000	OFFSET	.000
	□	.735			MOUNT	1.000	PHI	180.000
◇	.860							

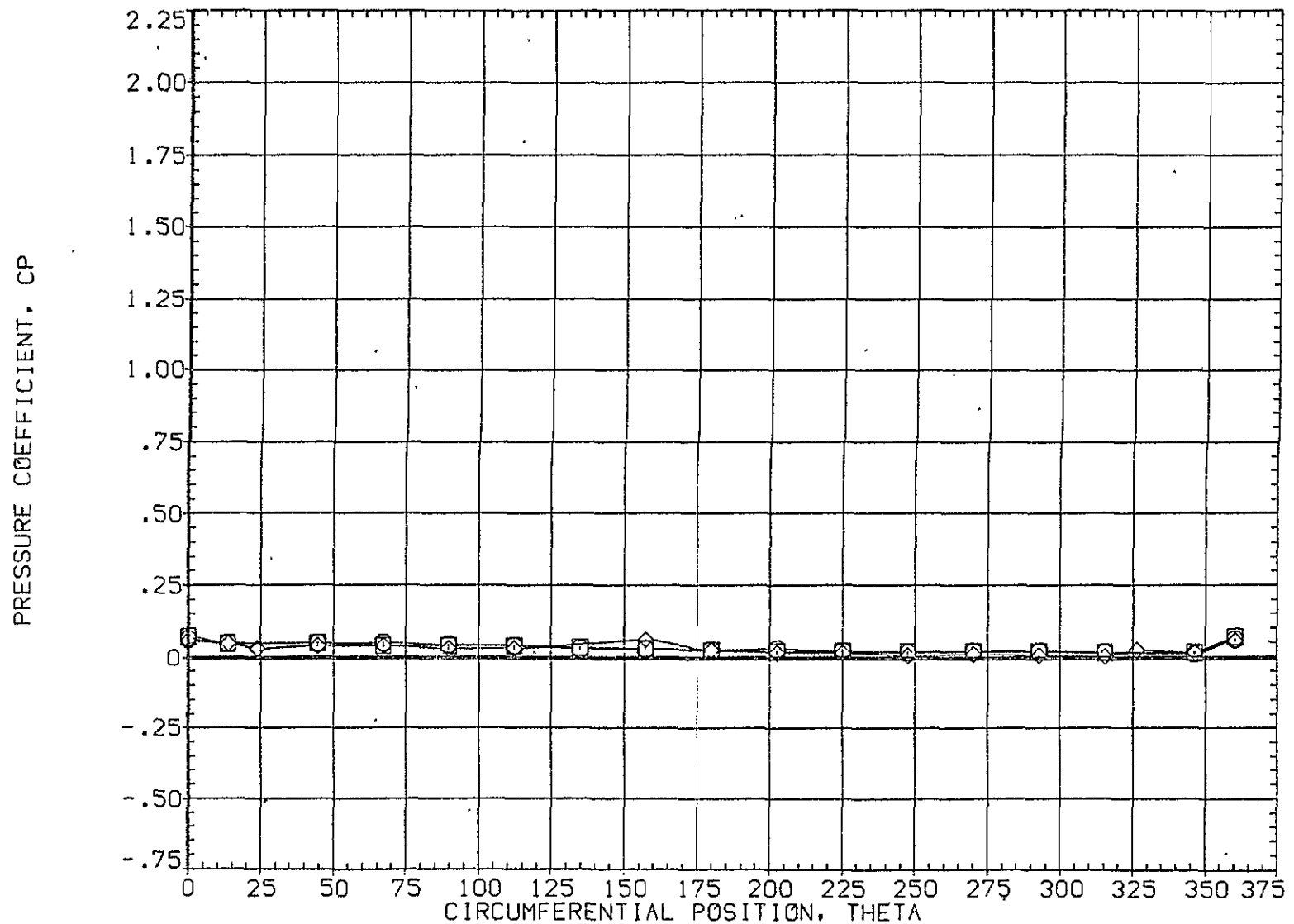


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.892	-.280	4.960	.000	.000	.000	.000
□	.923			1.000	1.000	180.000	
◇	.954						

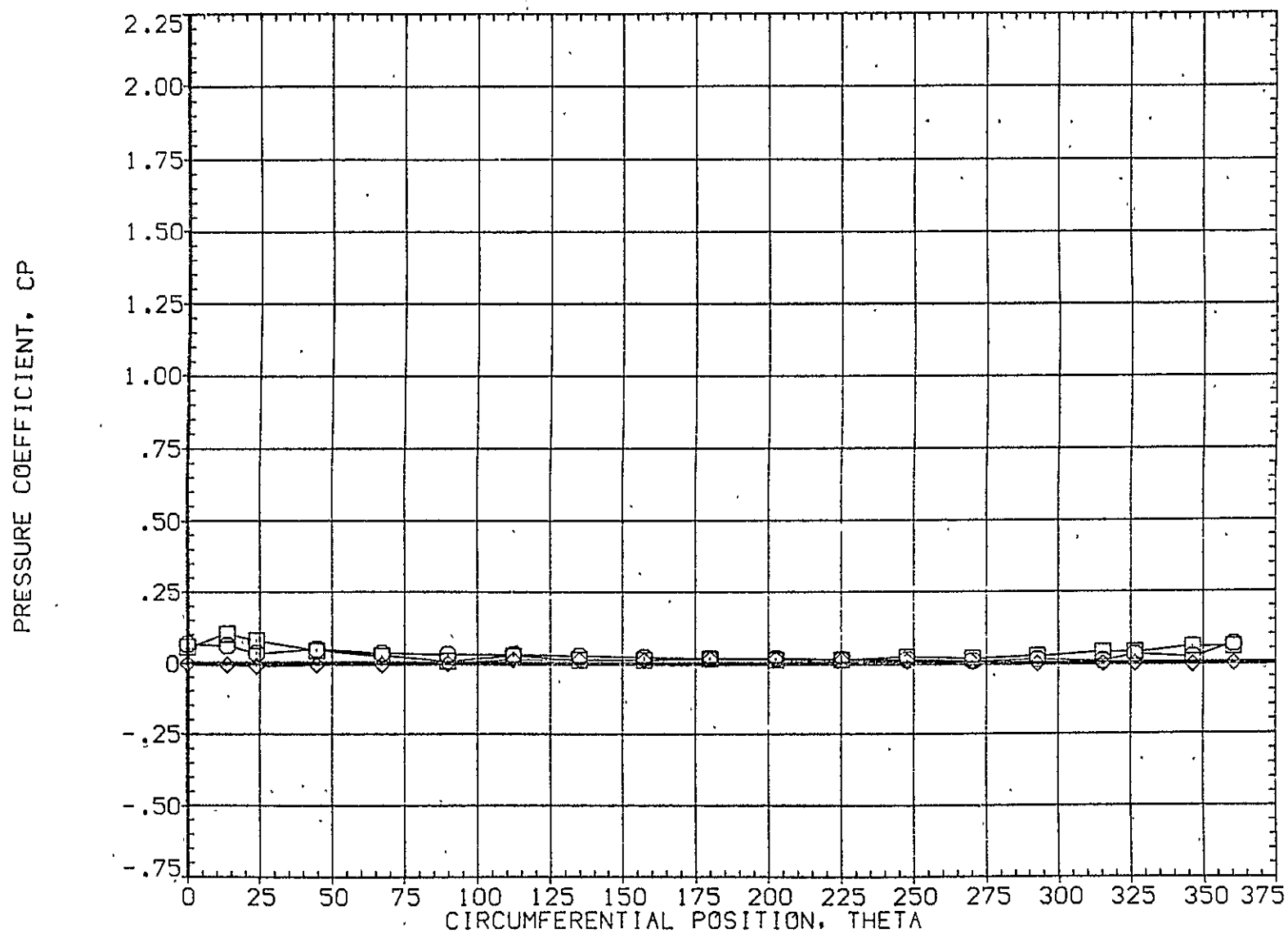


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A034)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.055	3.730	4.960	MOUNT	.000	PHI	.000
□	.108				1.000		180.000
◇	.162						

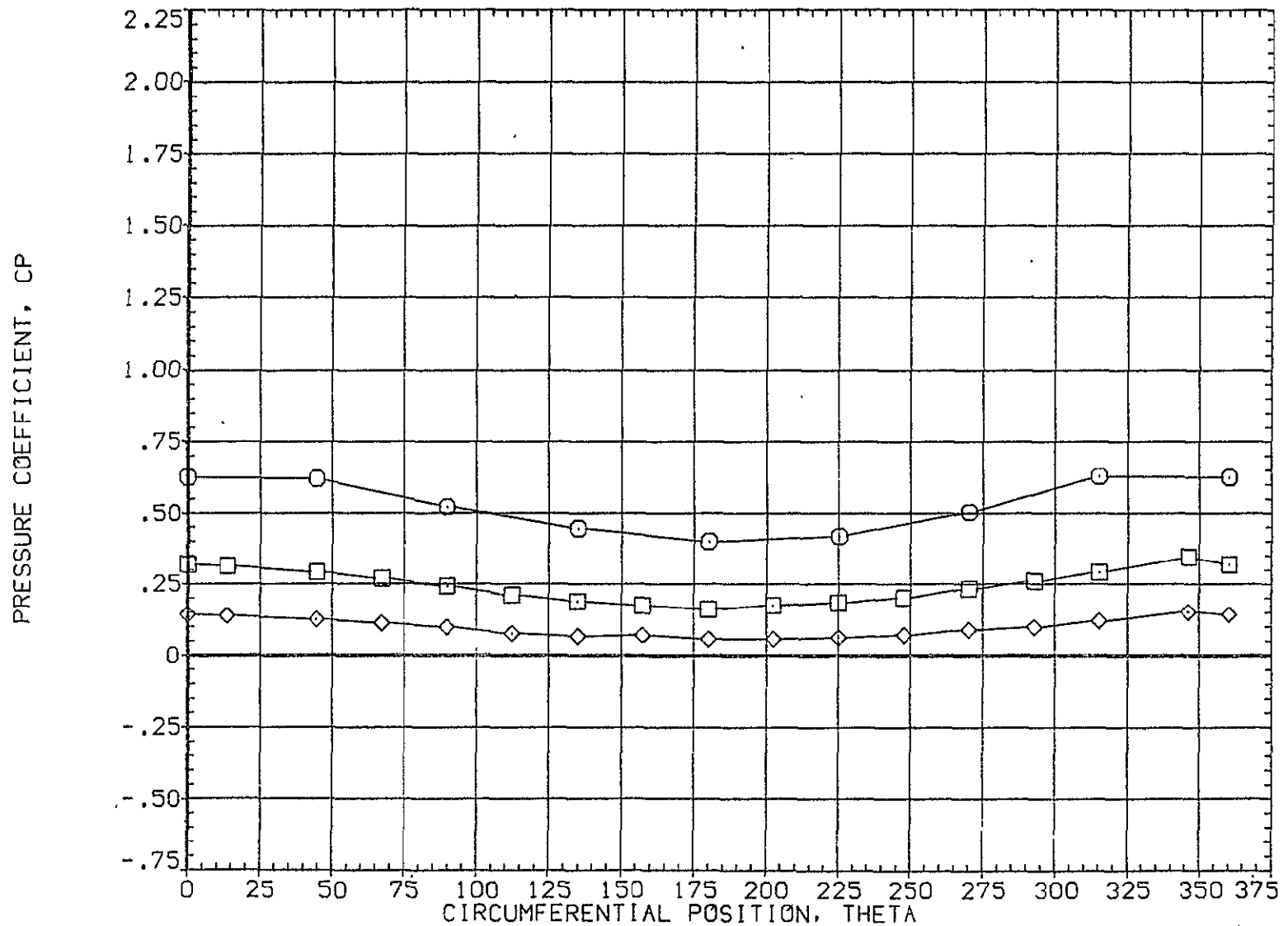


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	3.730	4.960	BETA	.000	OFFSET .000
□	.322			MOUNT	1.000	PHI 180.000
◇	.518					

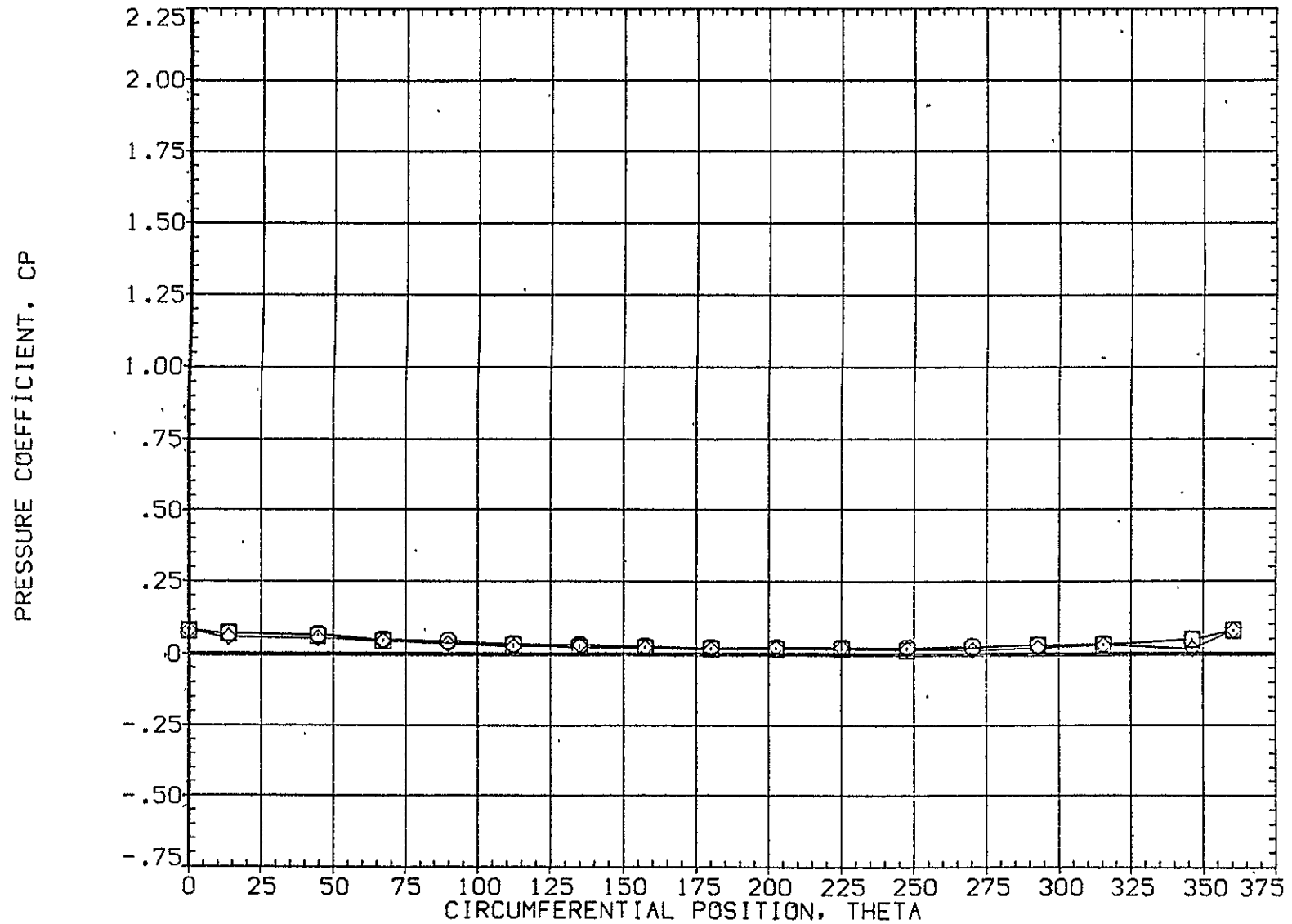


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A034)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
	○	.610	3.730	BETA	.000	OFFSET
	□	.735		MOUNT	1.000	PHI
◇	.860					.000

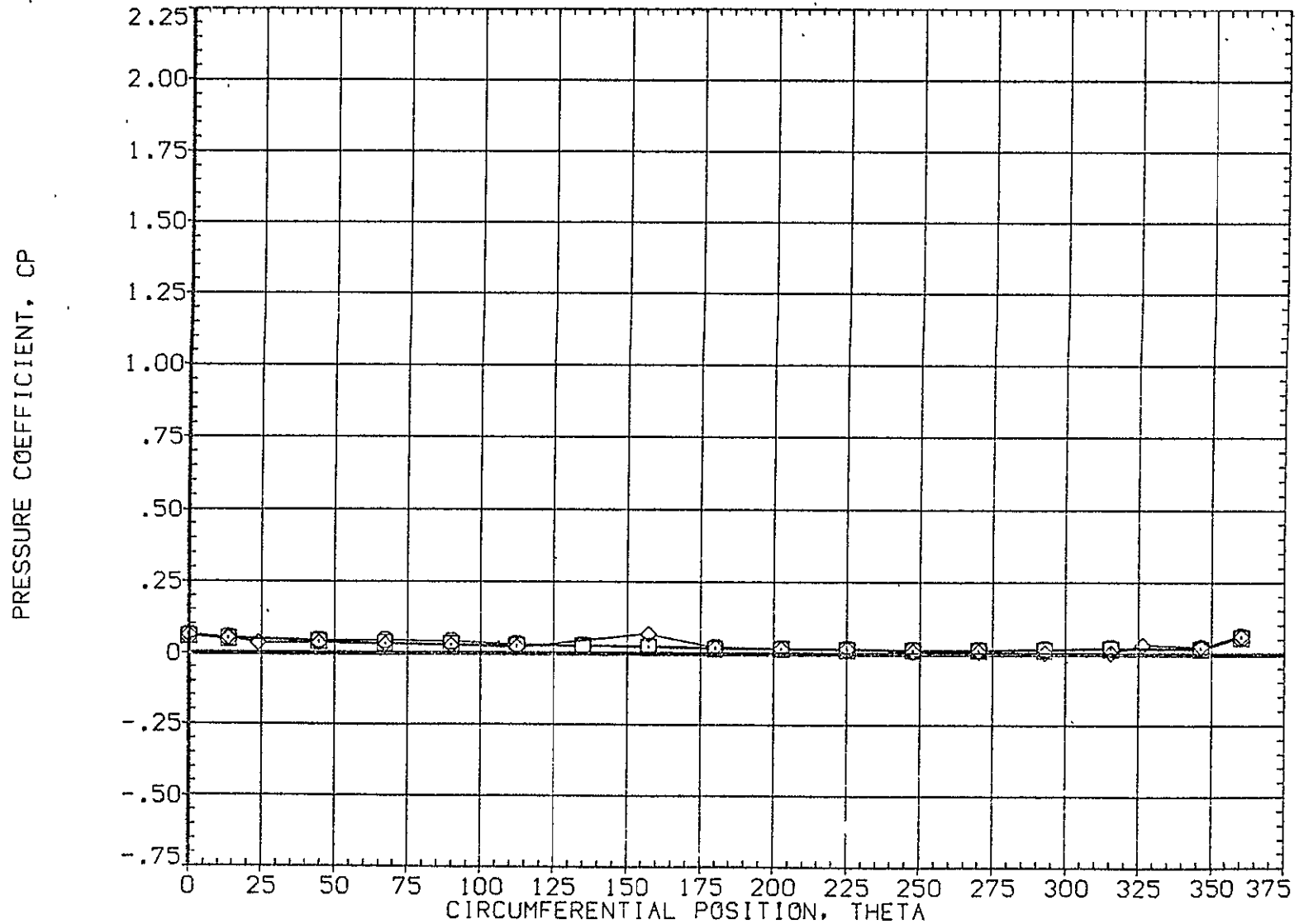


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	3.730	4.960	.000		.000
□	.923			1.000	PHI	180.000
◇	.954					

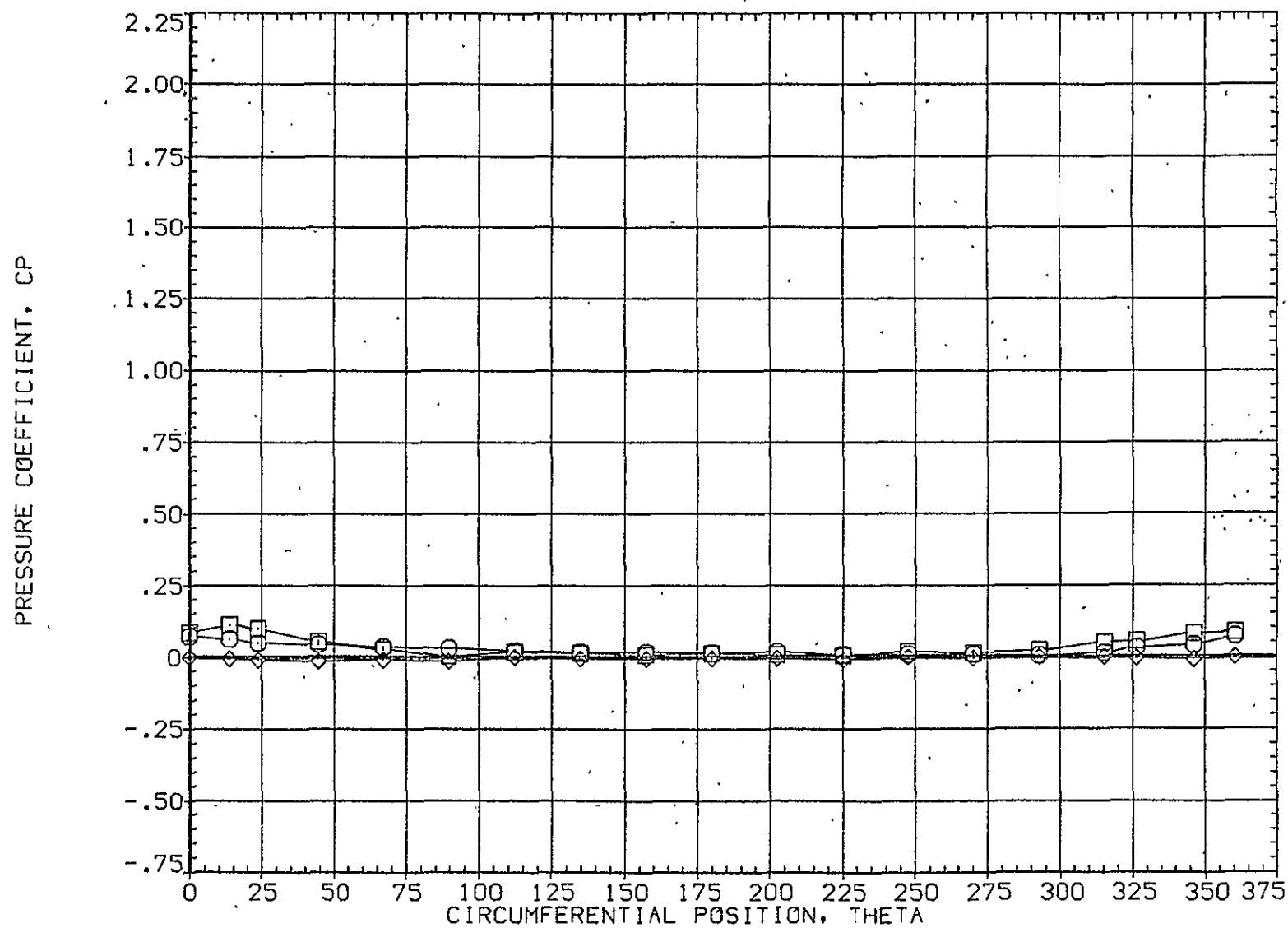


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A035)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	7.750	4.960	.000	OFFSET .000
□	.108			1.000	PHI 180.000
◇	.162				

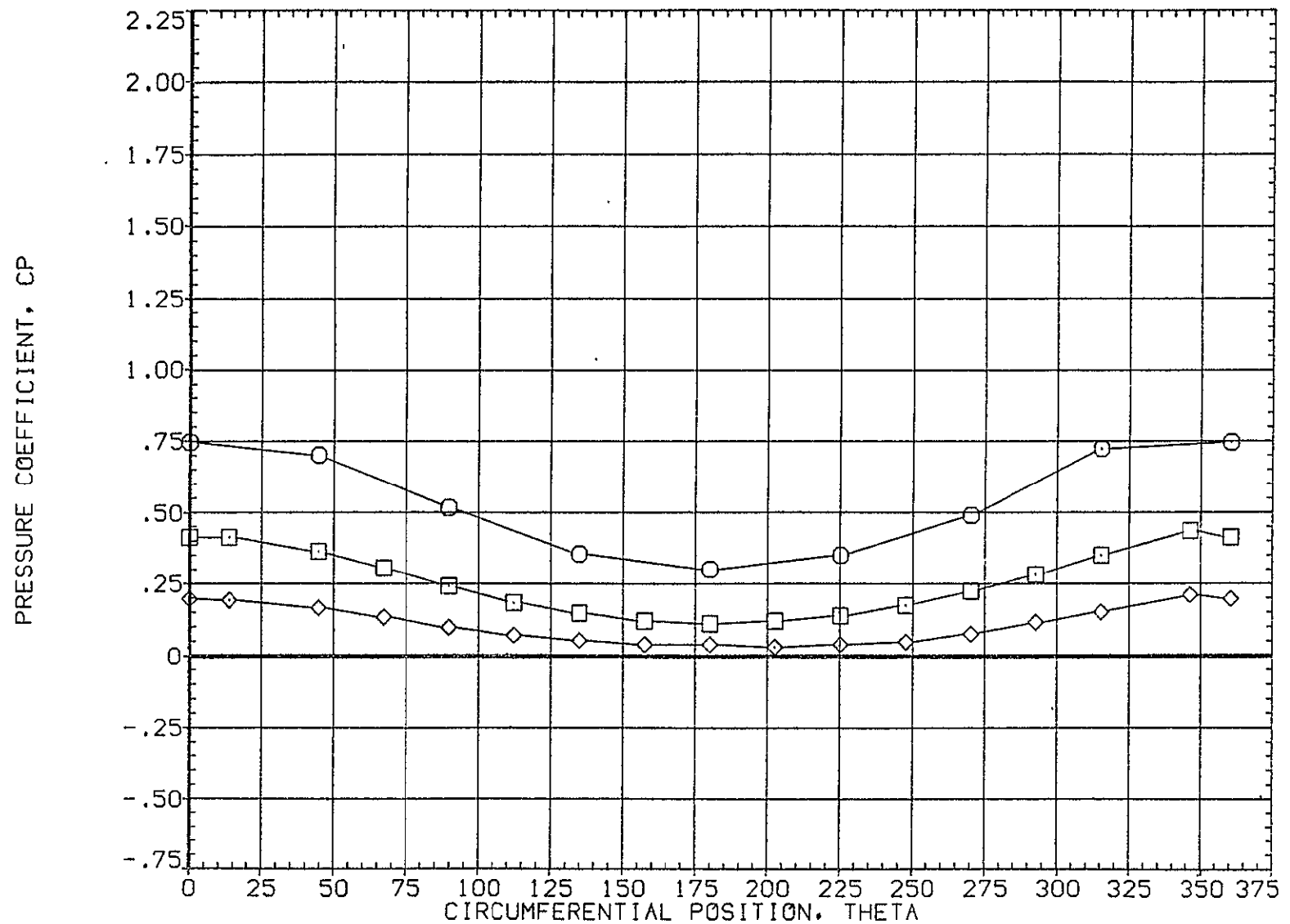


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.216	7.750	4.960		.000	.000
□	.322				1.000	180.000
◇	.518					

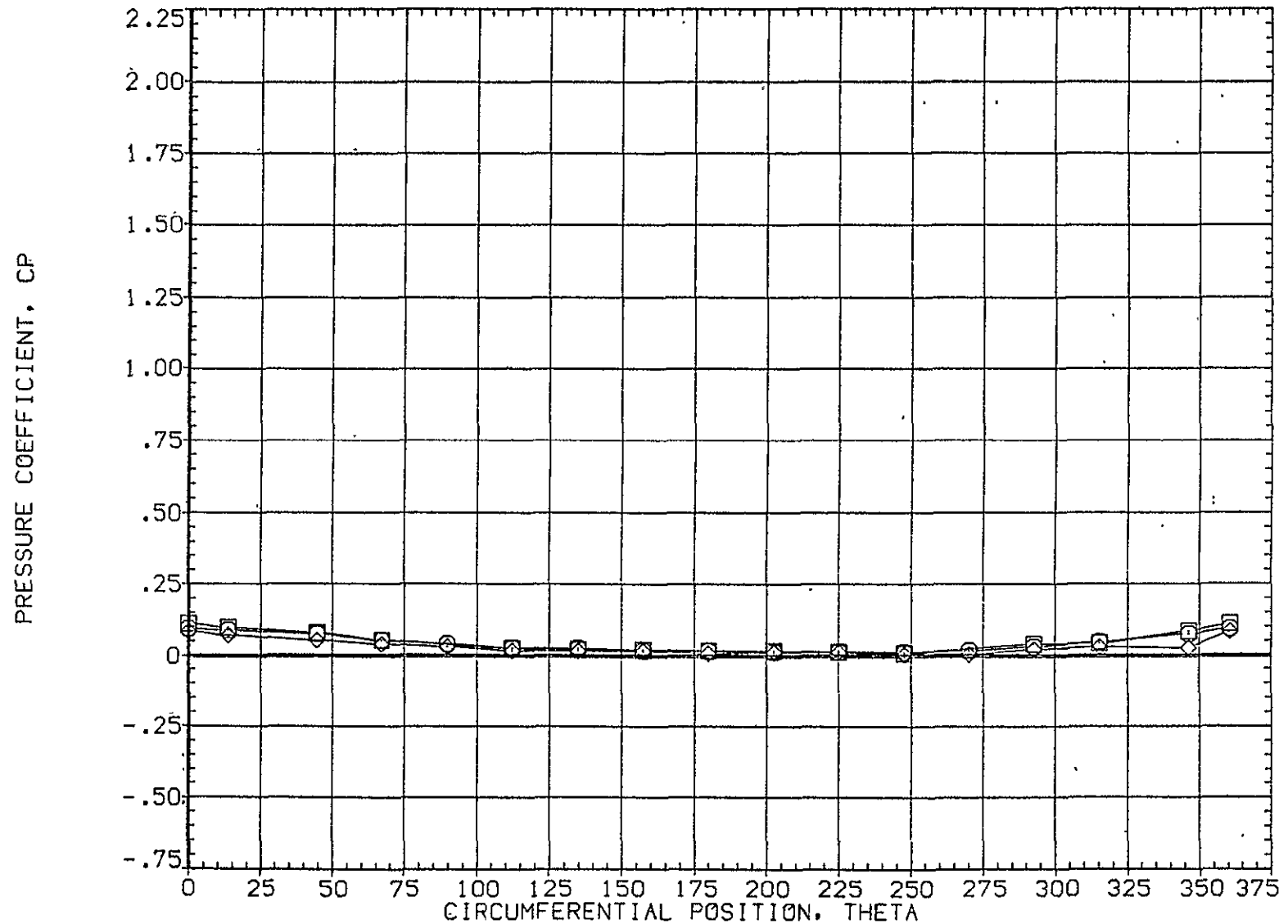


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK.

(P1A035)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.610	7.750	4.960	MOUNT	1.000	PHI	180.000
□	.735						
◇	.860						

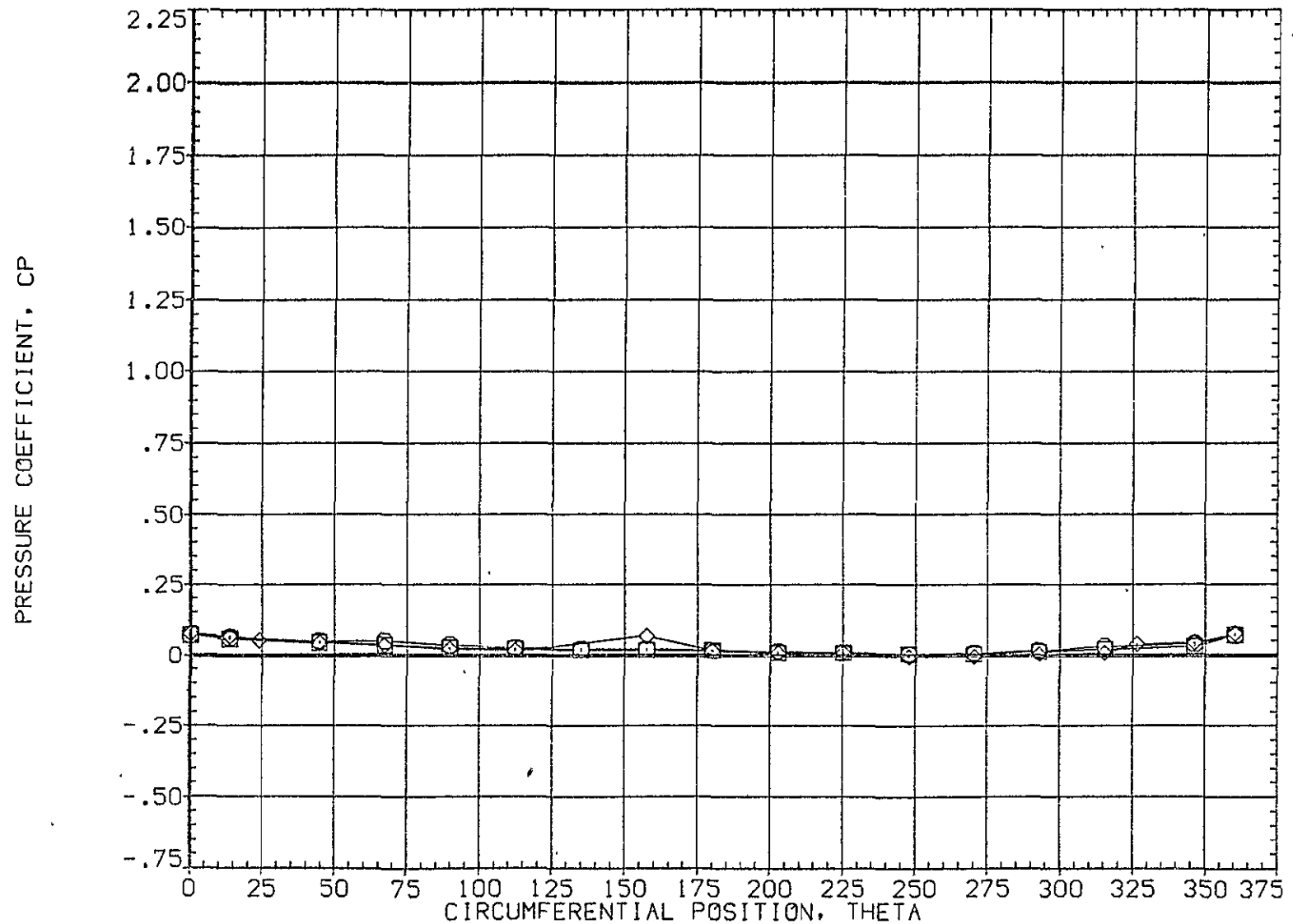


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	7.750	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET .000
MOUNT	1.000	PHI 180.000

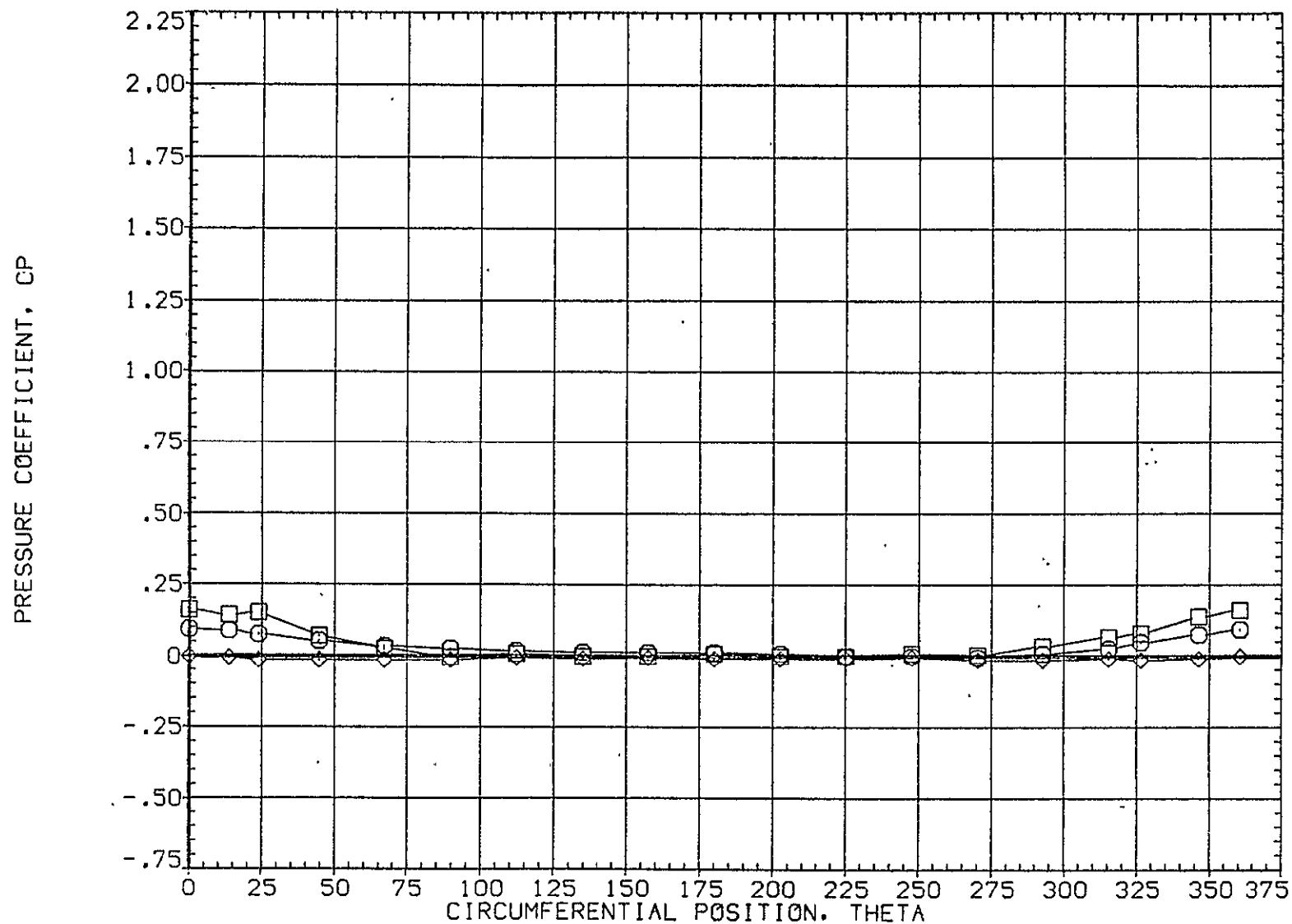


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A036)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.055	12.450	4.960	MOUNT	1.000	PHI 180.000
□	.108					
◇	.162					

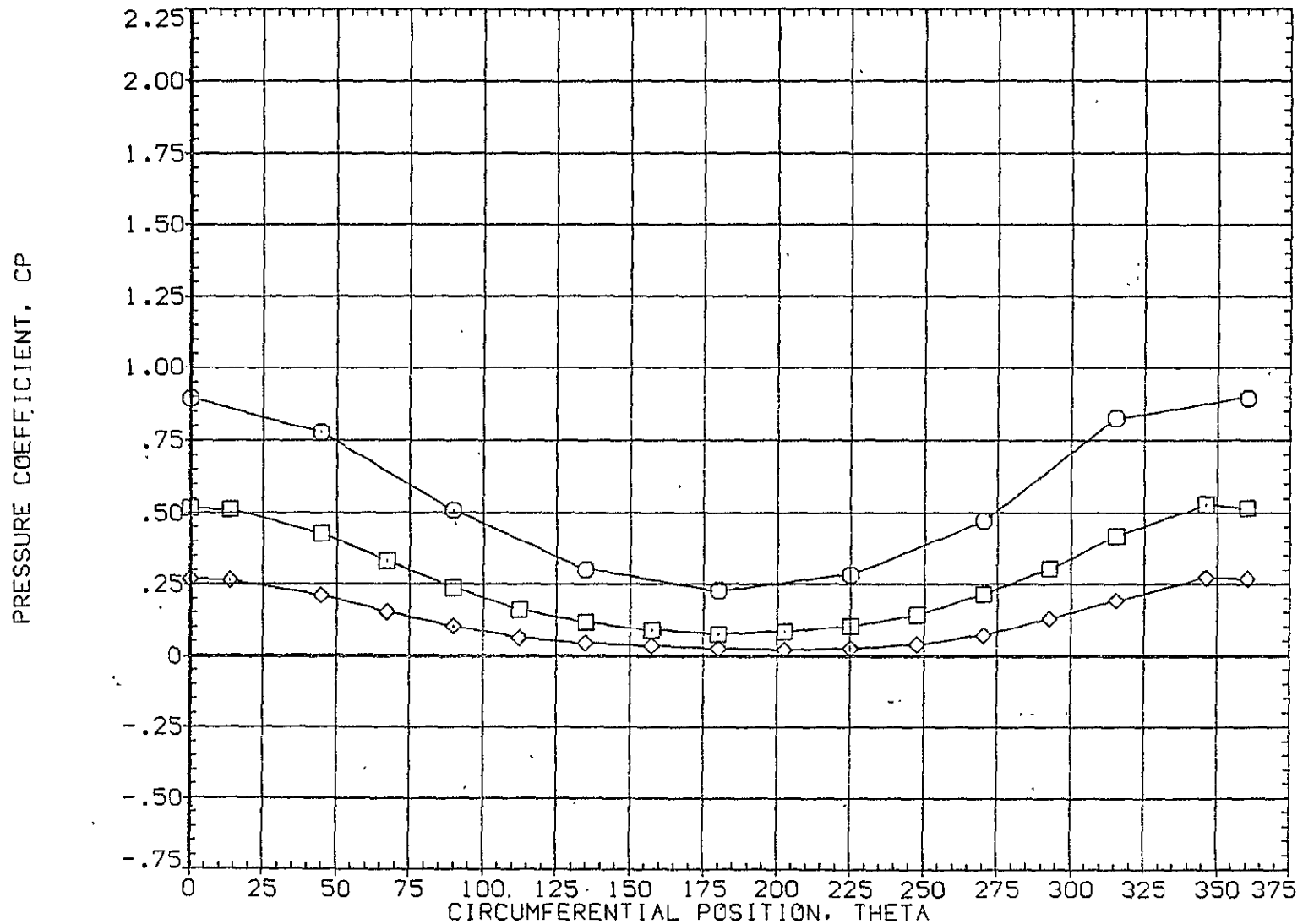


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 180.000
○	.216	12.450	4.960			
□	.322					
◇	.518					

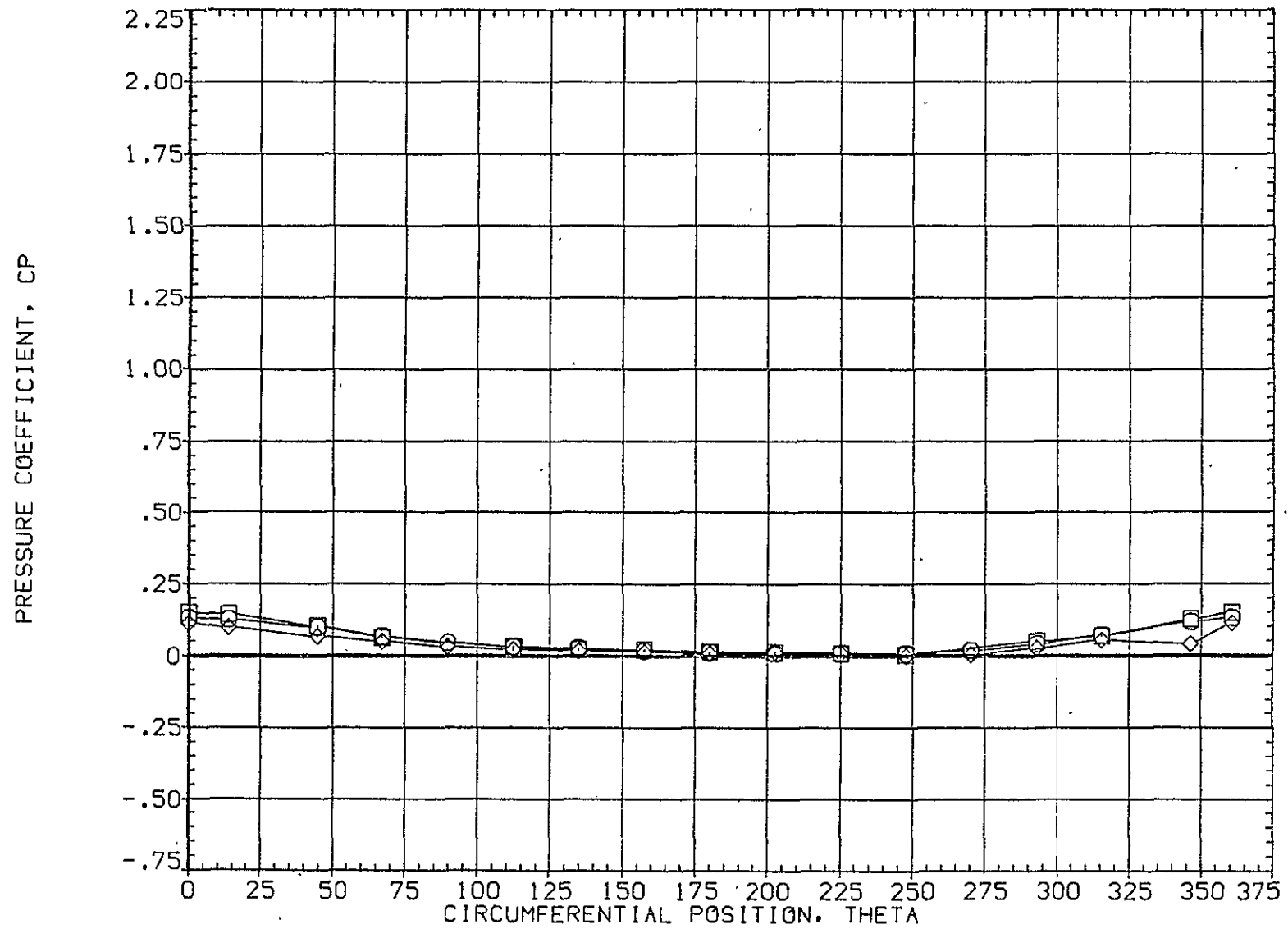


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A036)

SYMBOL	X/LB	ALPHA	MACH
○	.610	12.450	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

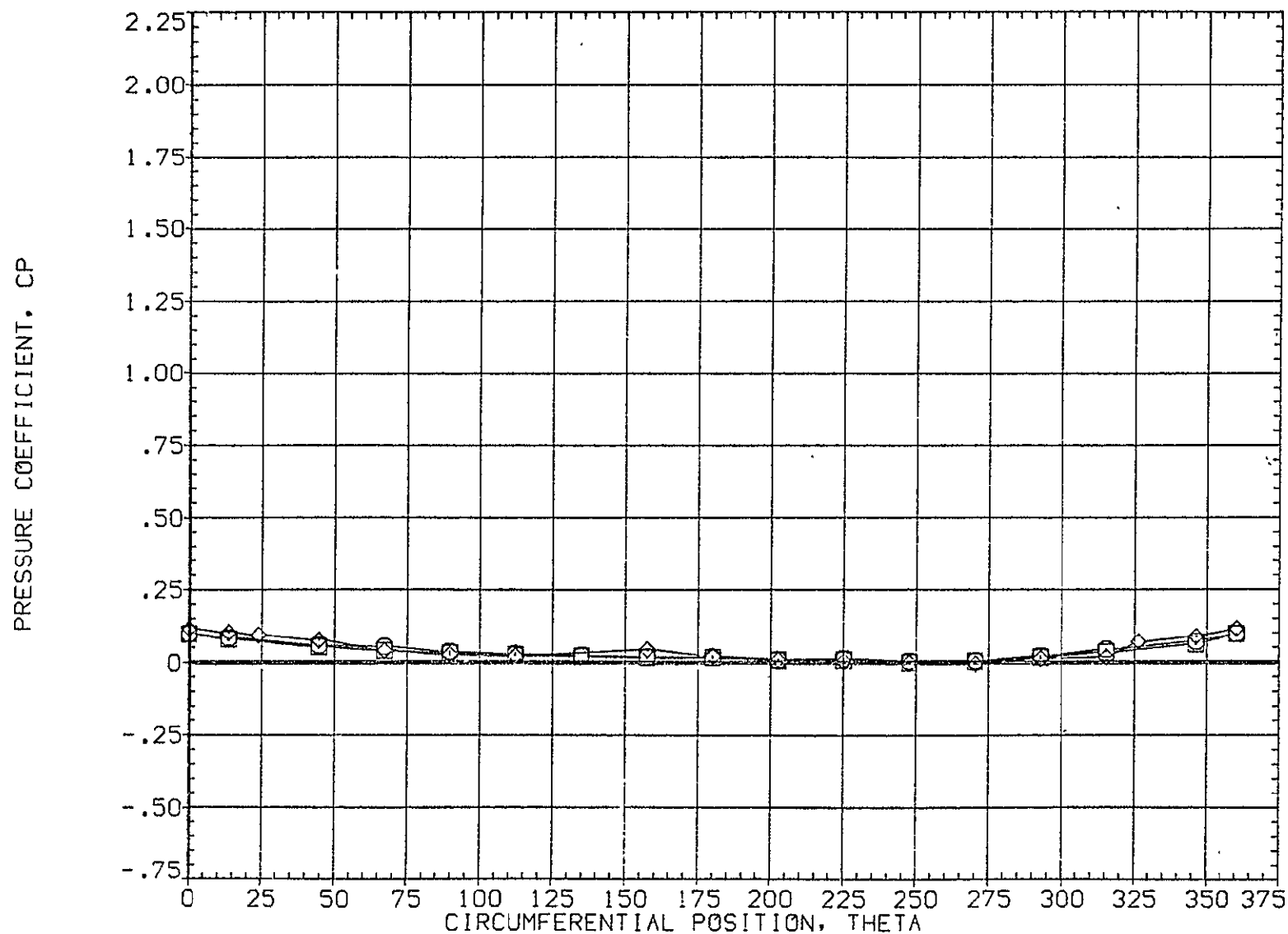


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.892	12.450	4.960	BETA	.000	OFFSET	20.000
□	.923			MOUNT	1.000	PHI	180.000
◇	.954						

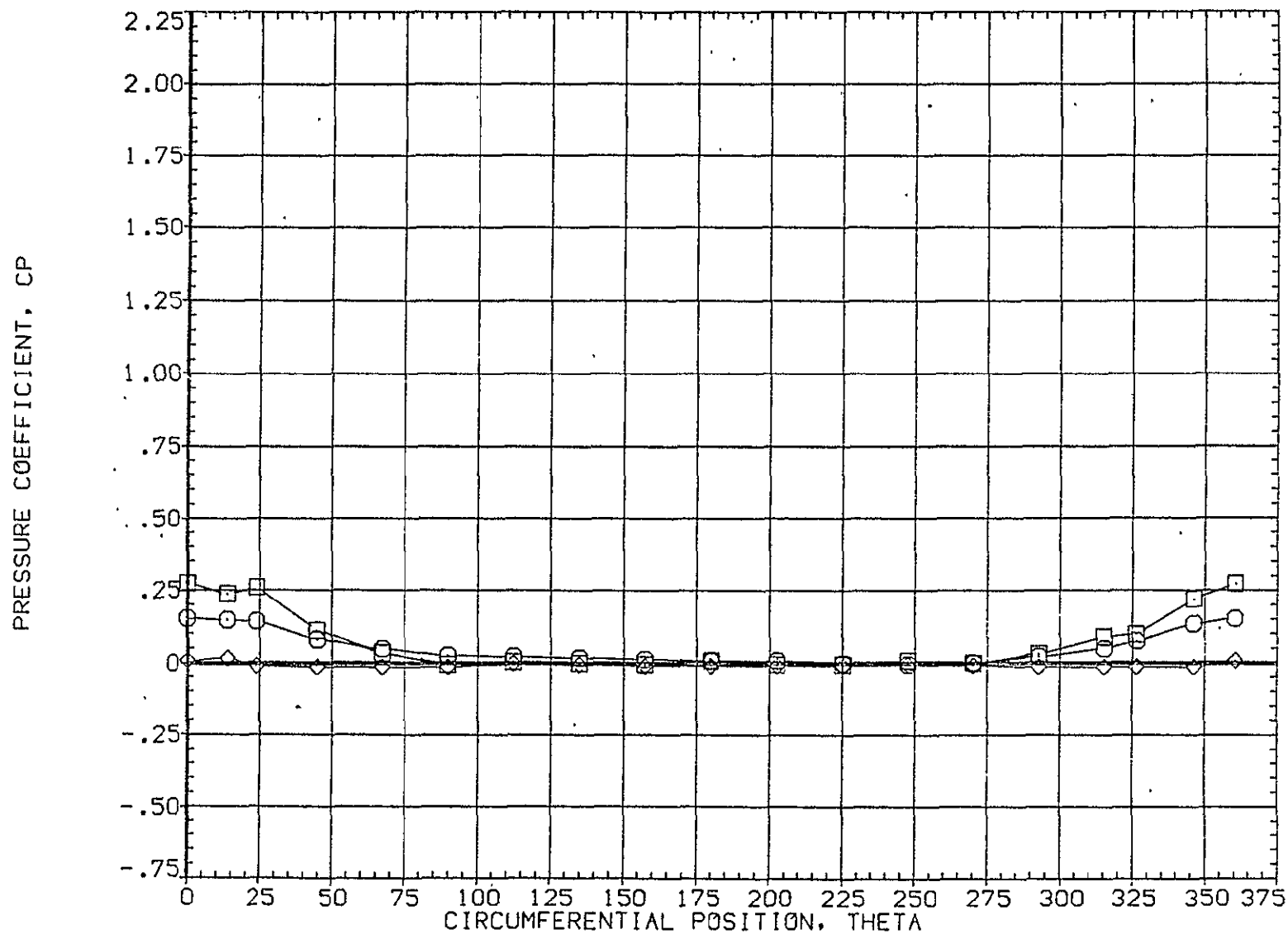


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(PIA037)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	16.470	4.960	MOUNT	.000	OFFSET	20.000
□	.108				1.000	PHI	180.000
◇	.162						

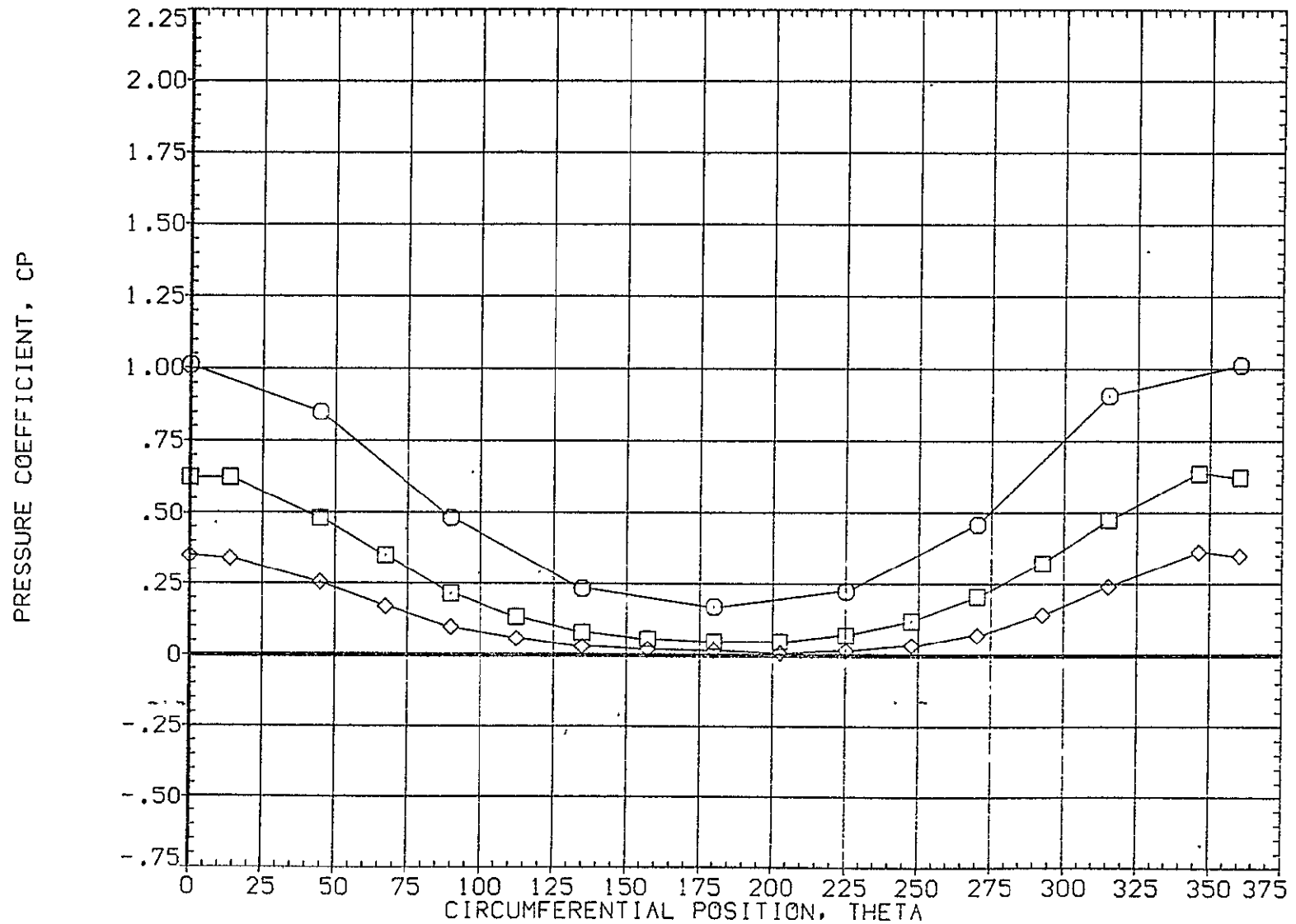


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	16.470	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

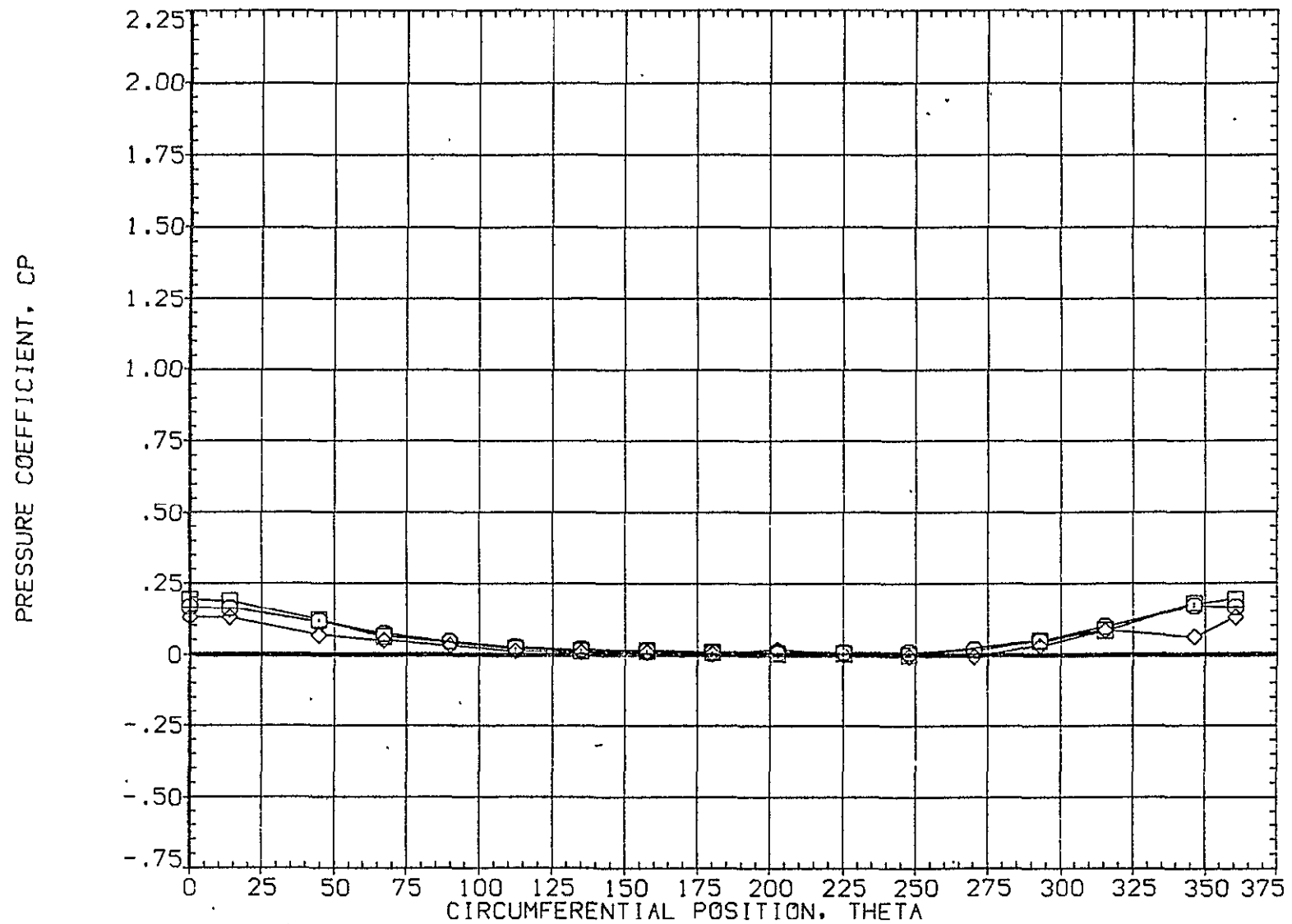


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A037)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 180.000
○	.610	16.470	4.960			
□	.735					
◇	.860					

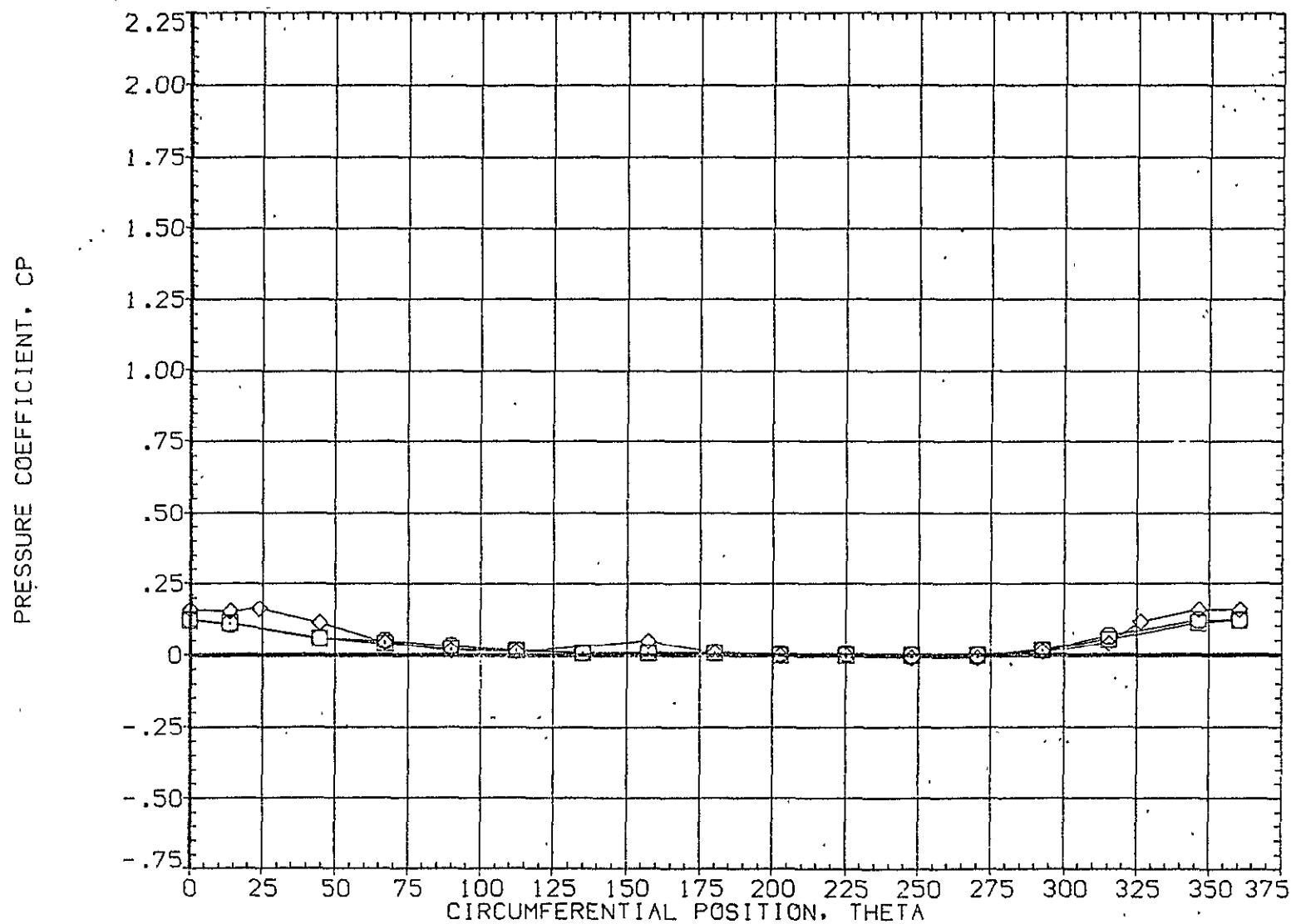


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20,000
○	.892	16.470	4.960	MOUNT	1.000	PHI 180.000
□	.923					
◇	.954					

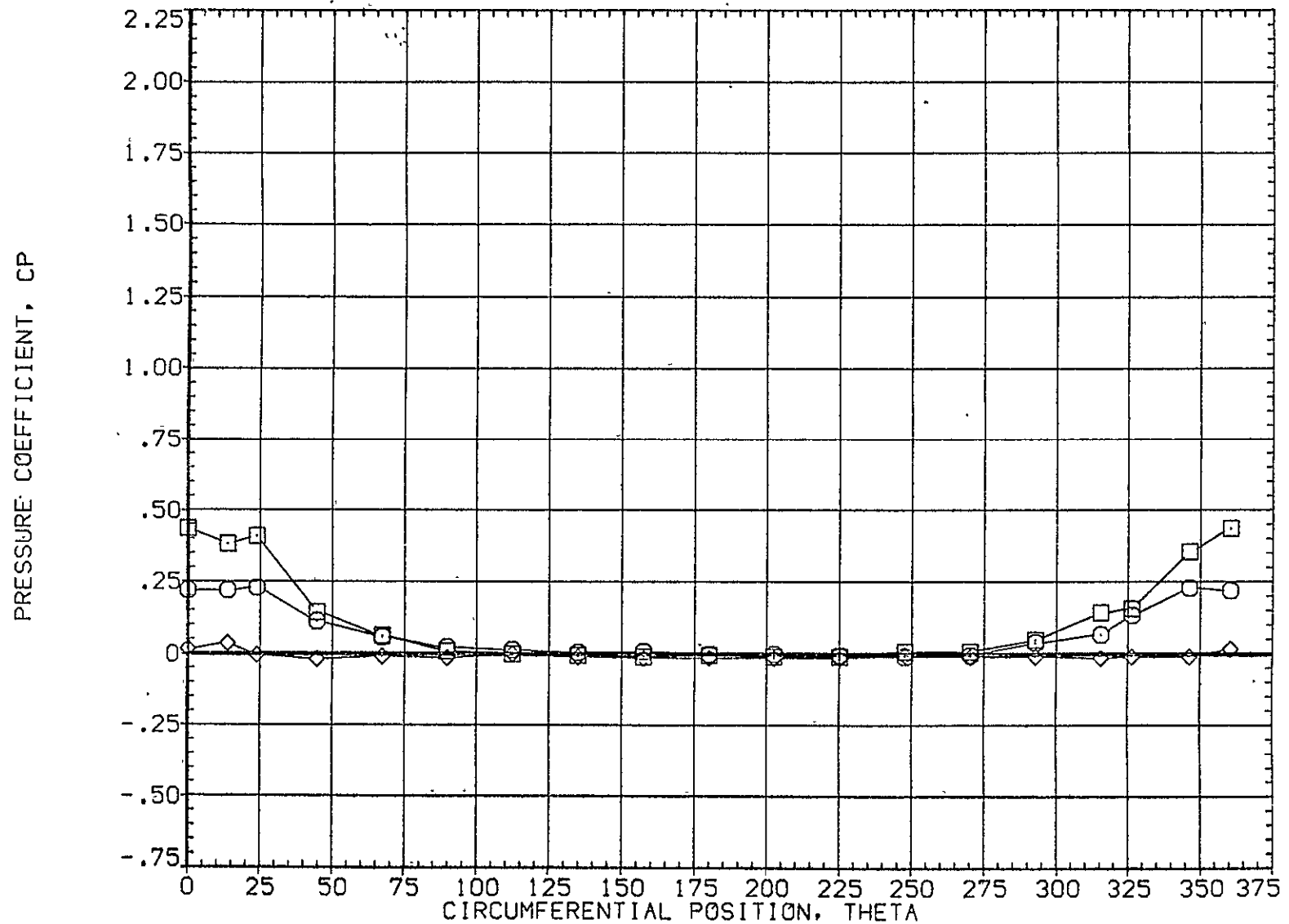


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.055	20.490	4.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

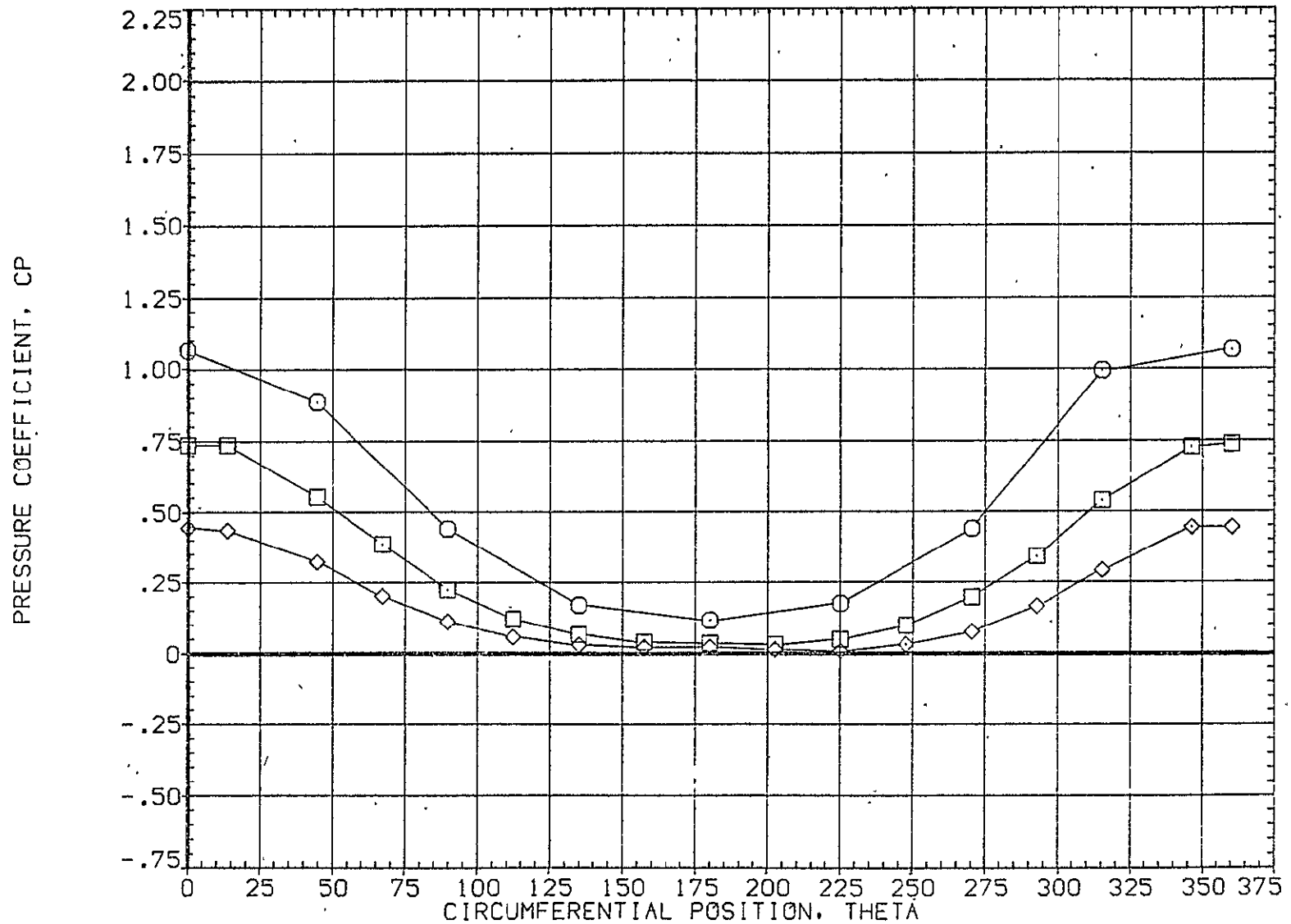


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.490	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 180.000

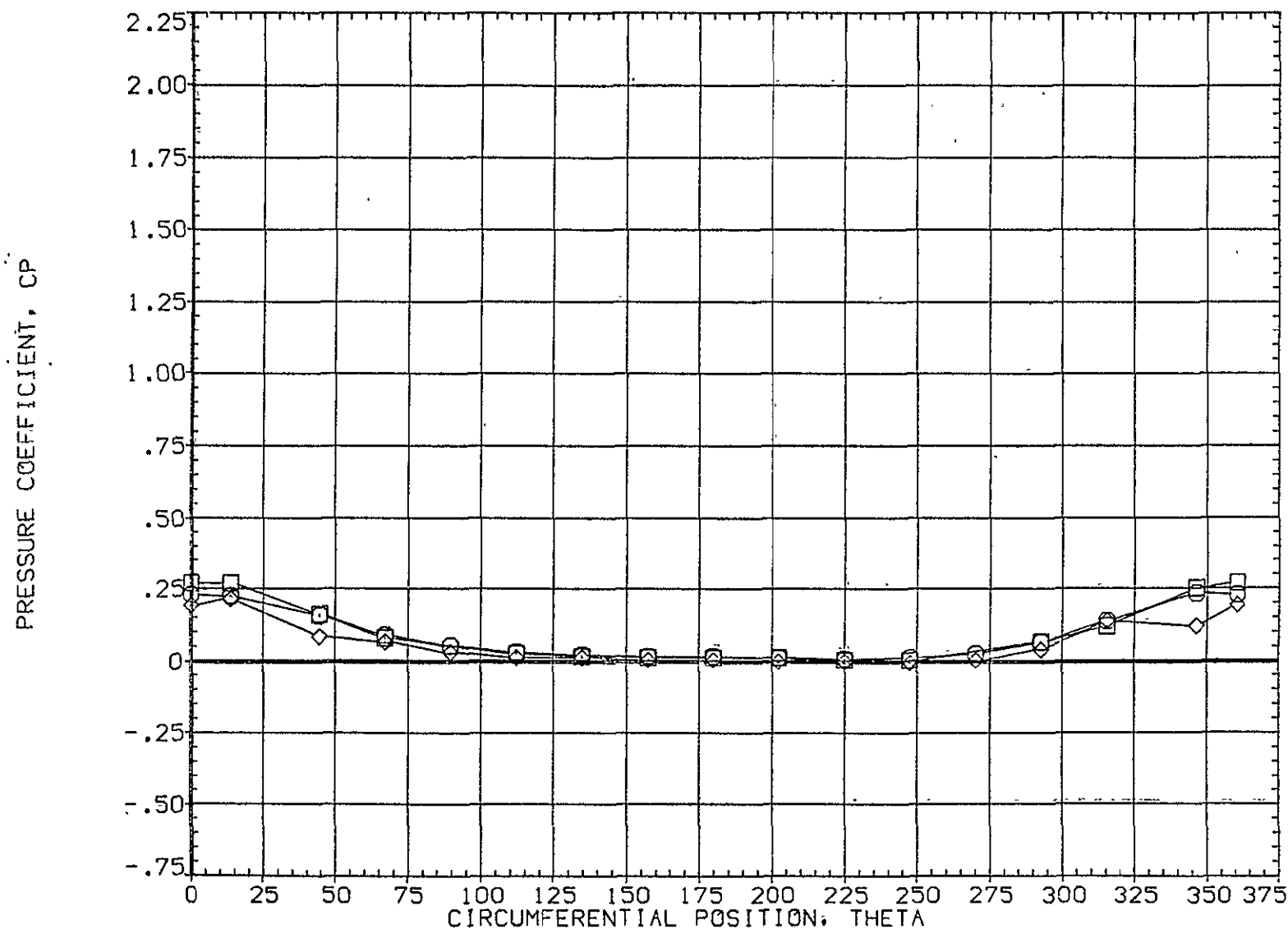


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(PIA038)

SYMBOL	X/LB	ALPHA	MACH
○	.610	20.490	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

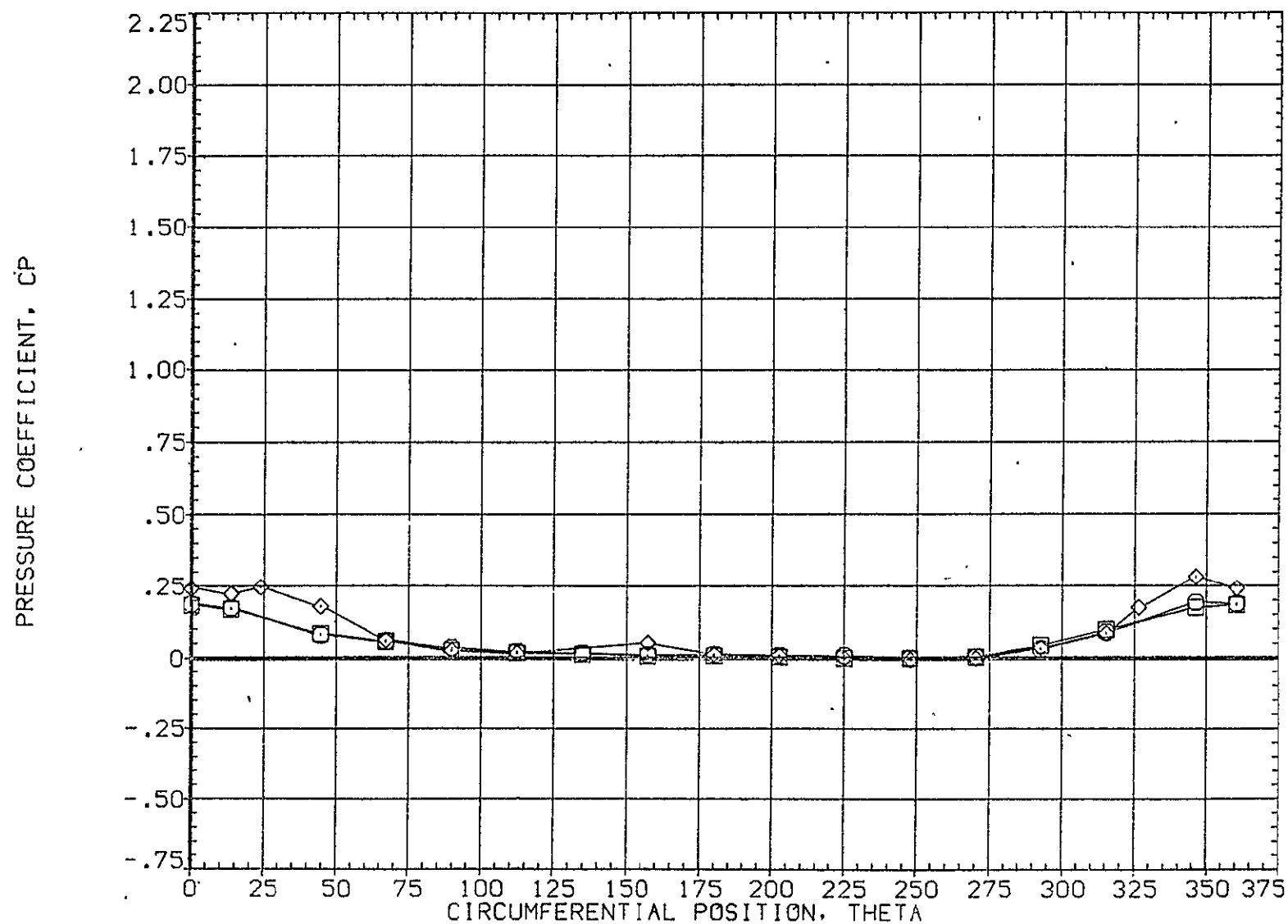


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.892	20.490	4.960	BETA	.000	OFFSET 20.000
□	.923			MOUNT	1.000	PHI 180.000
◇	.954					

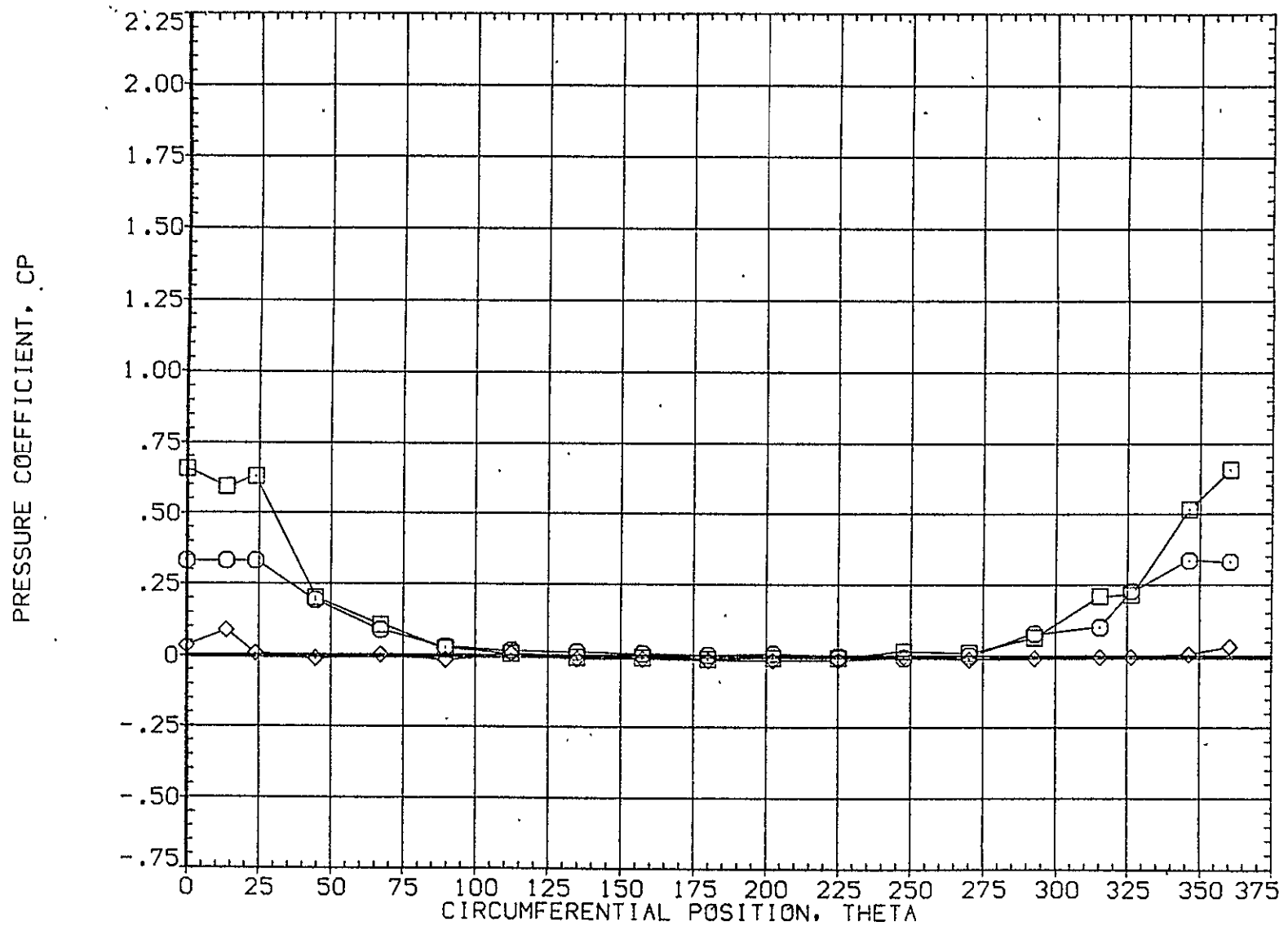


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A039)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	20.000	
○	.055	24.510	4.960	MOUNT	.000	PHI	180.000
□	.108				1.000		
◇	.162						

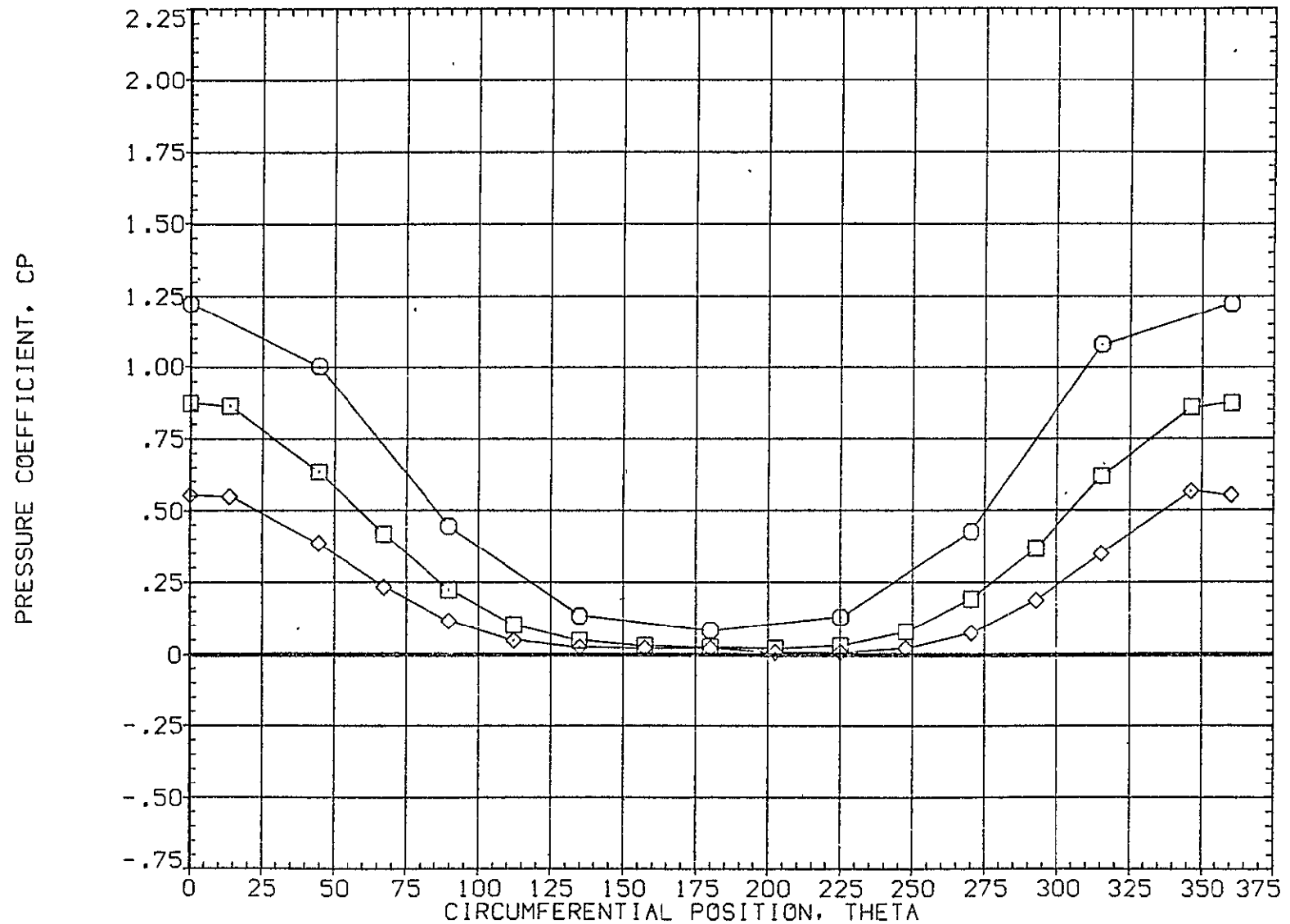


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.216	24.510	4.960		.000		20.000
□	.322			MOUNT	1.000		180.000
◇	.518						

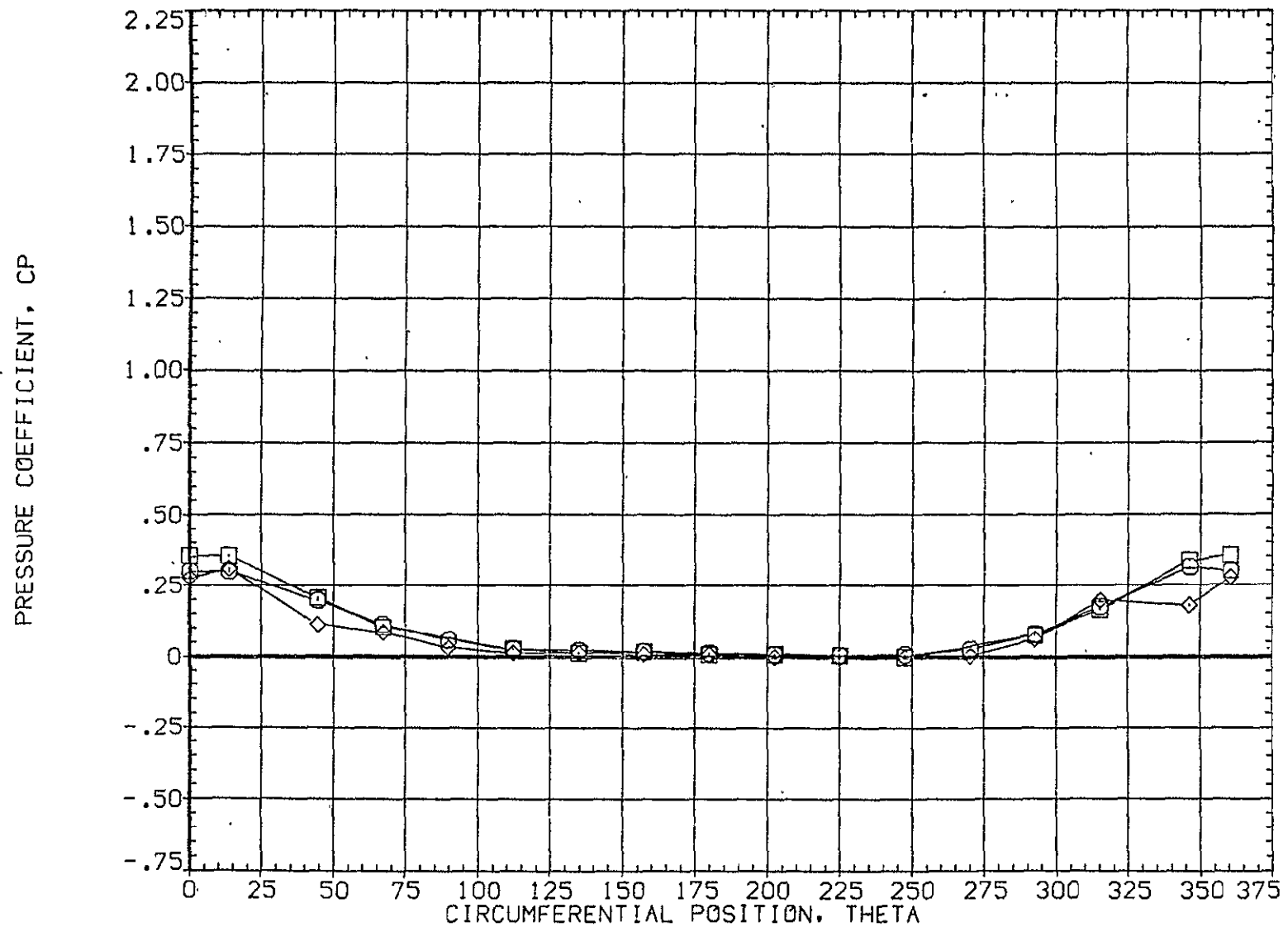


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A039)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.810	24.510	4.960	MOUNT	.000	PHI	180.000
□	.735				1.000		
◇	.860						

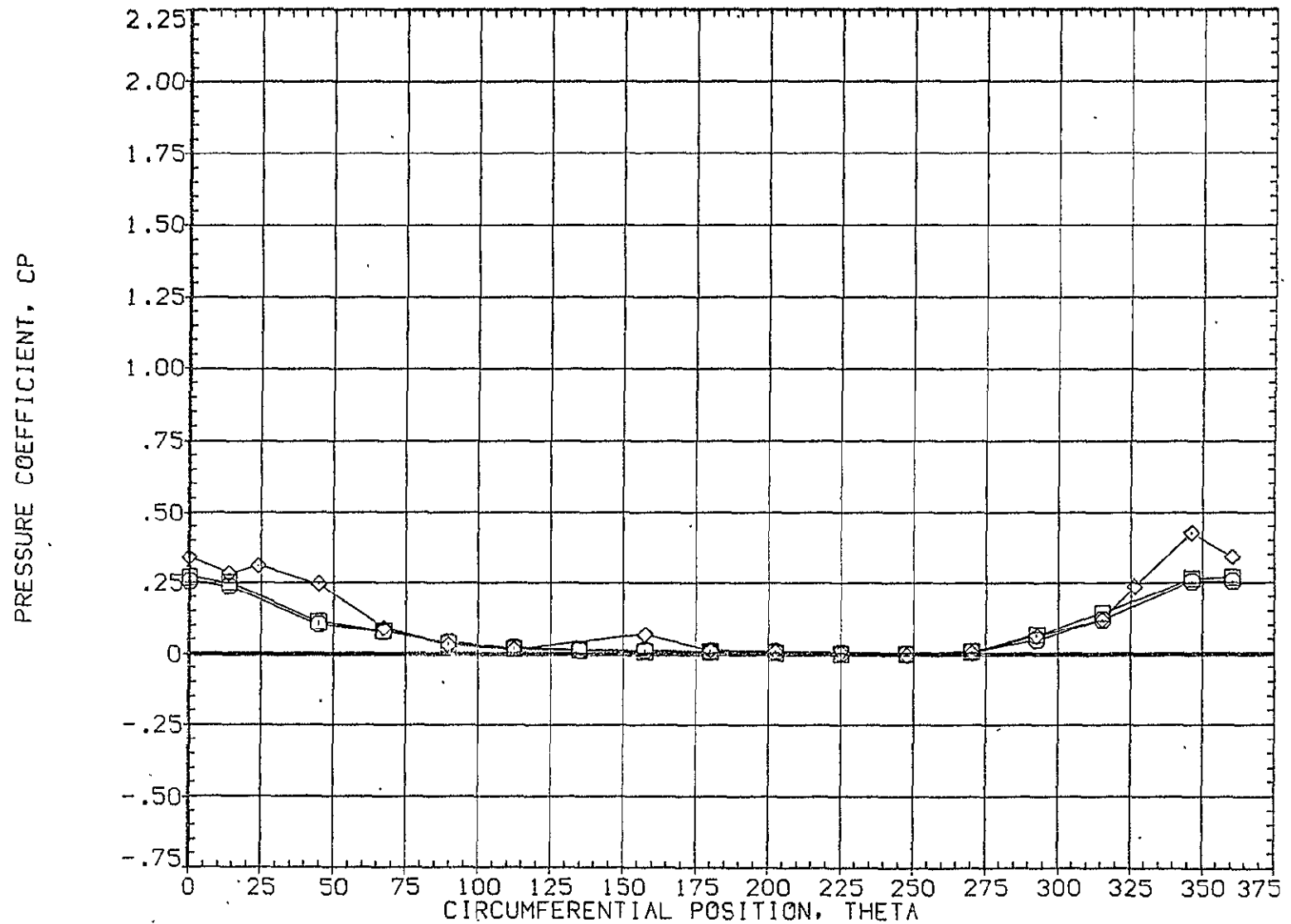


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.892	24.510	4.960		.000	20.000
□	.923				1.000	180.000
◇	.954					---

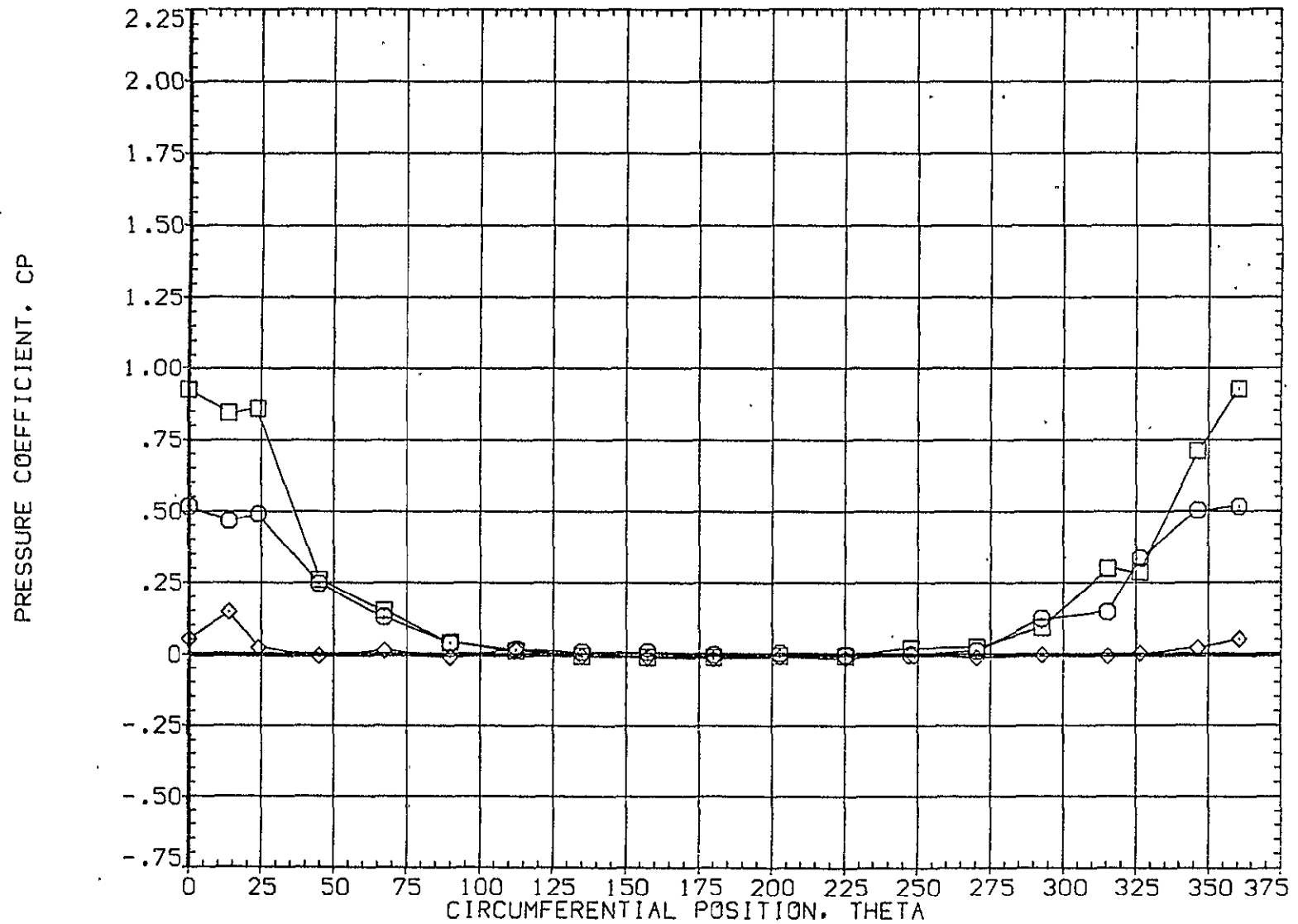


FIG. 5. CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A040)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	28.560	4.960	.000	OFFSET 20.000
□	.108			1.000	PHI 180.000
◇	.162				

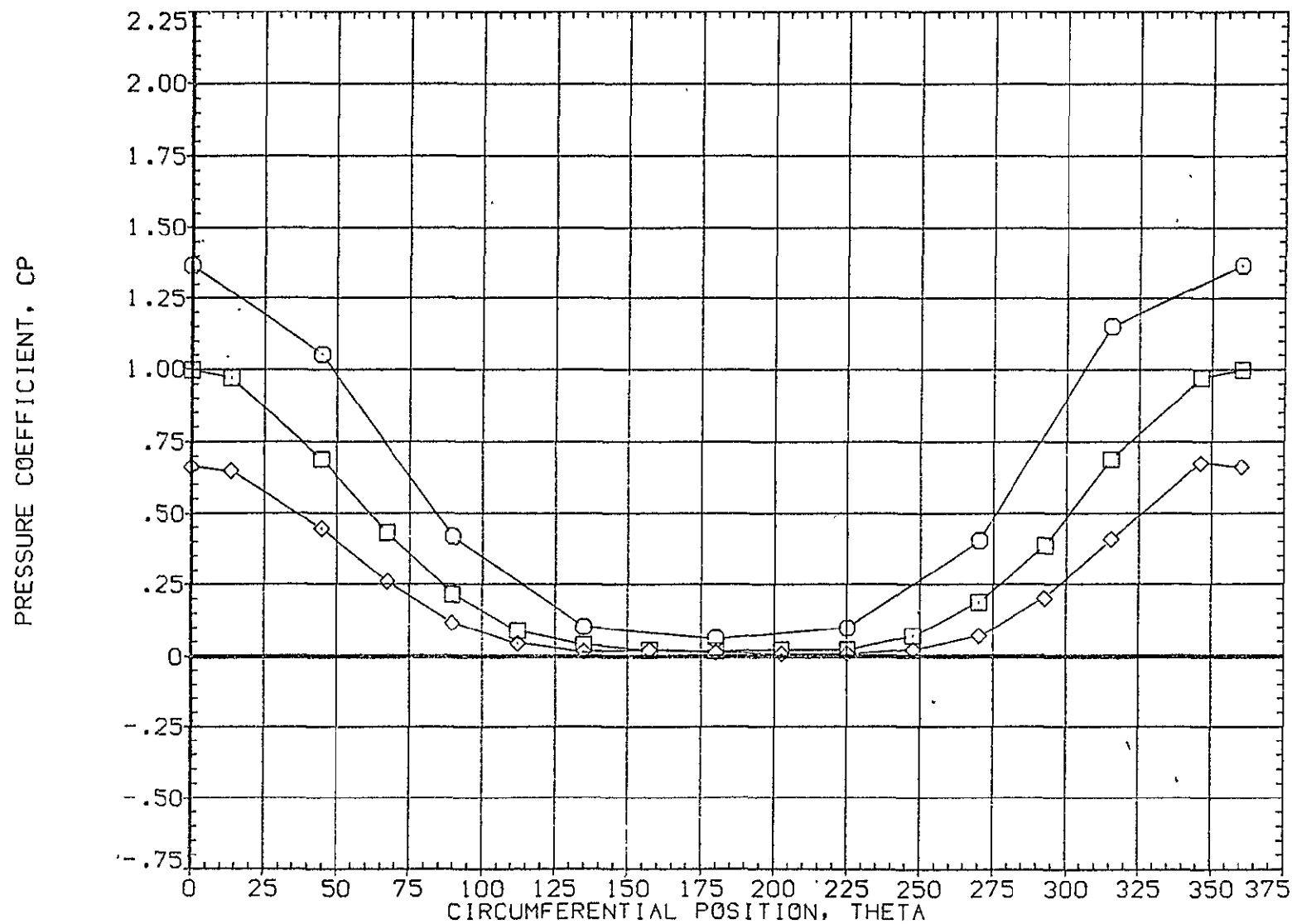


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	28.560	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 180.000

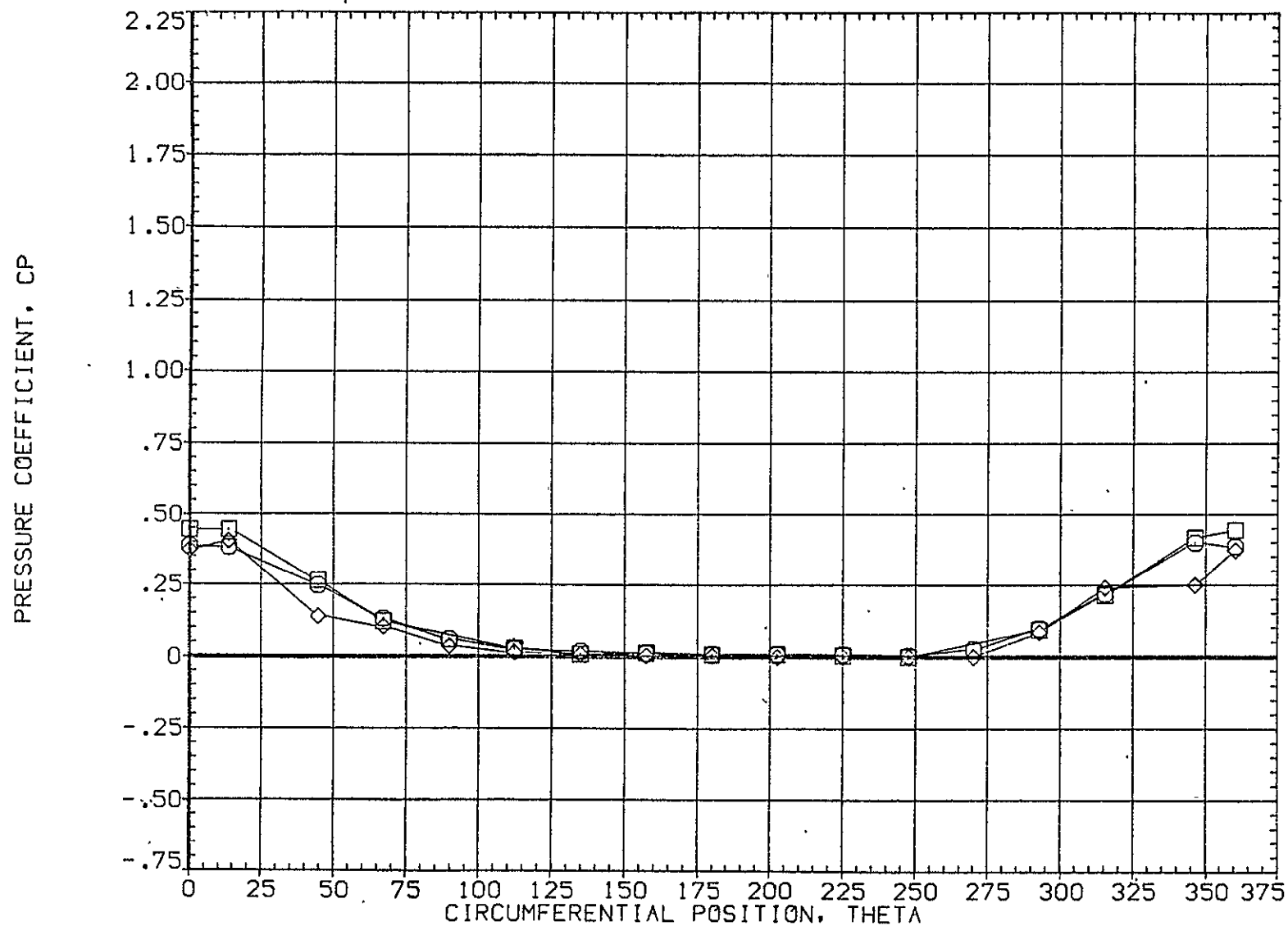


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A040)

SYMBOL	X/LB	ALPHA	MACH
○	.610	28.560	4.960
□	.735		
◇	.860		

BETA	.000	PARAMETRIC VALUES	20.000
MOUNT	1.000	OFFSET	180.000
		PHI	

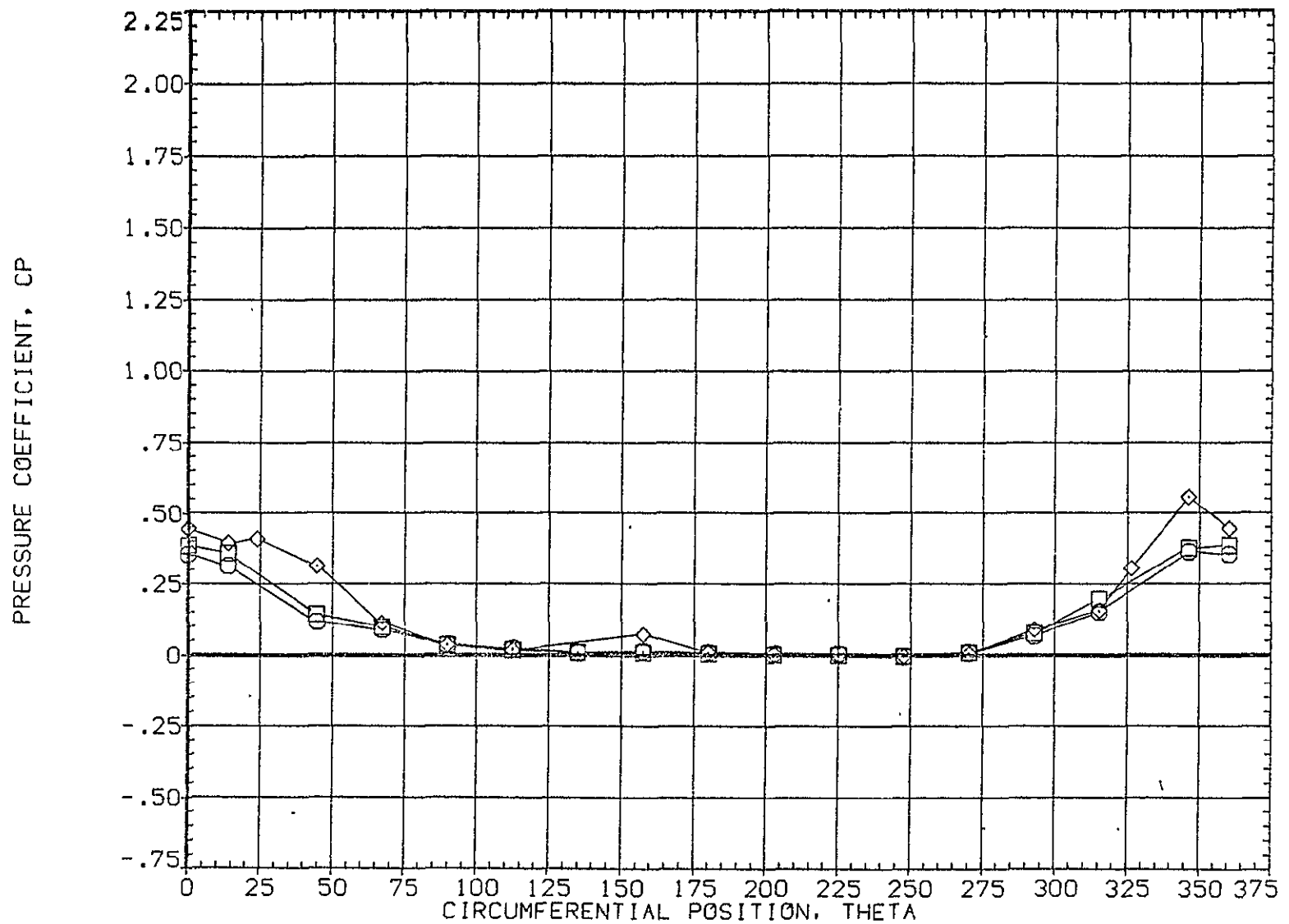


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	28.560	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES-			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	180.000

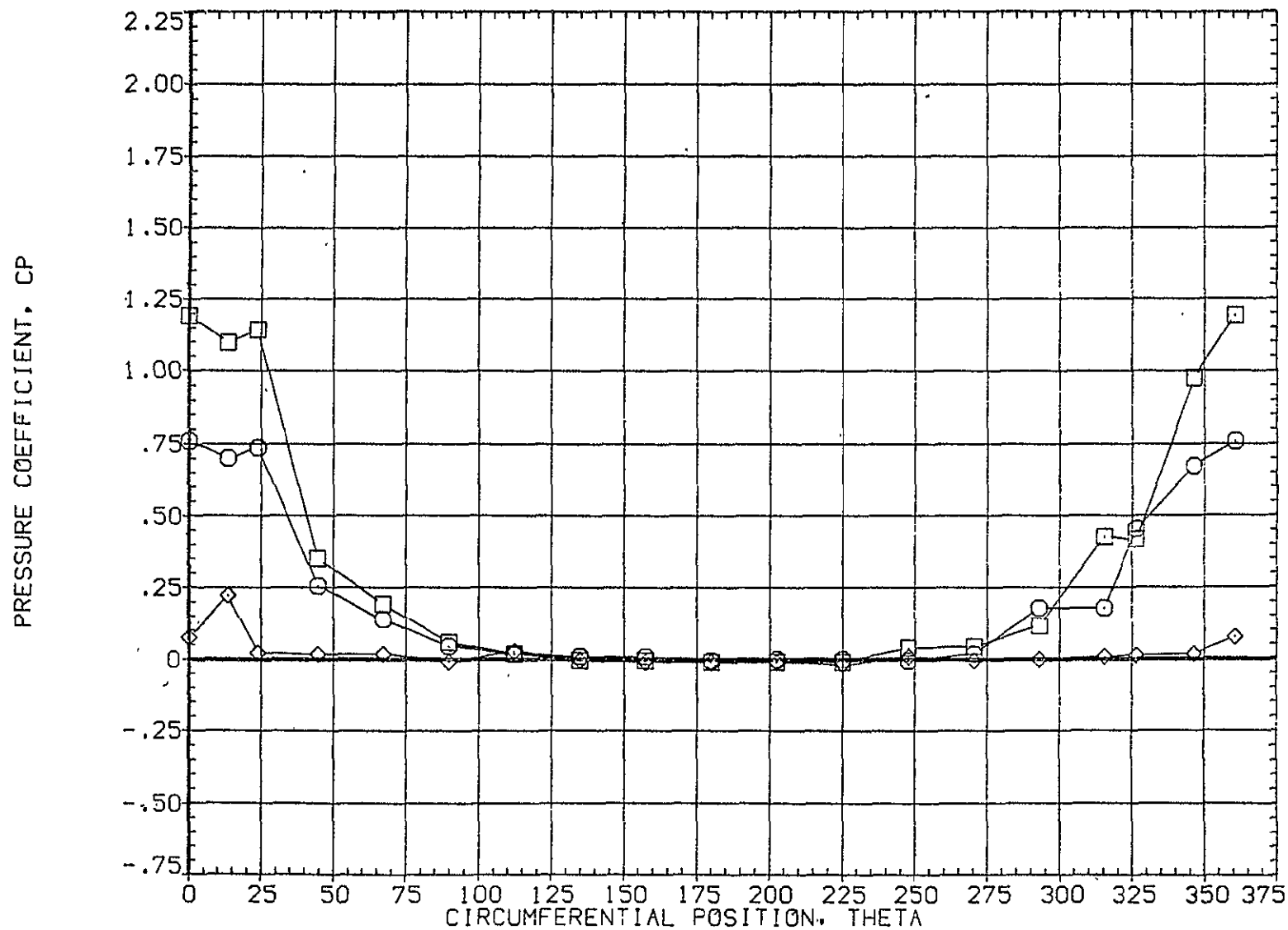


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A041)

SYMBOL	X/L8	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-8.310	4.960	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	225.000
◇	.162						

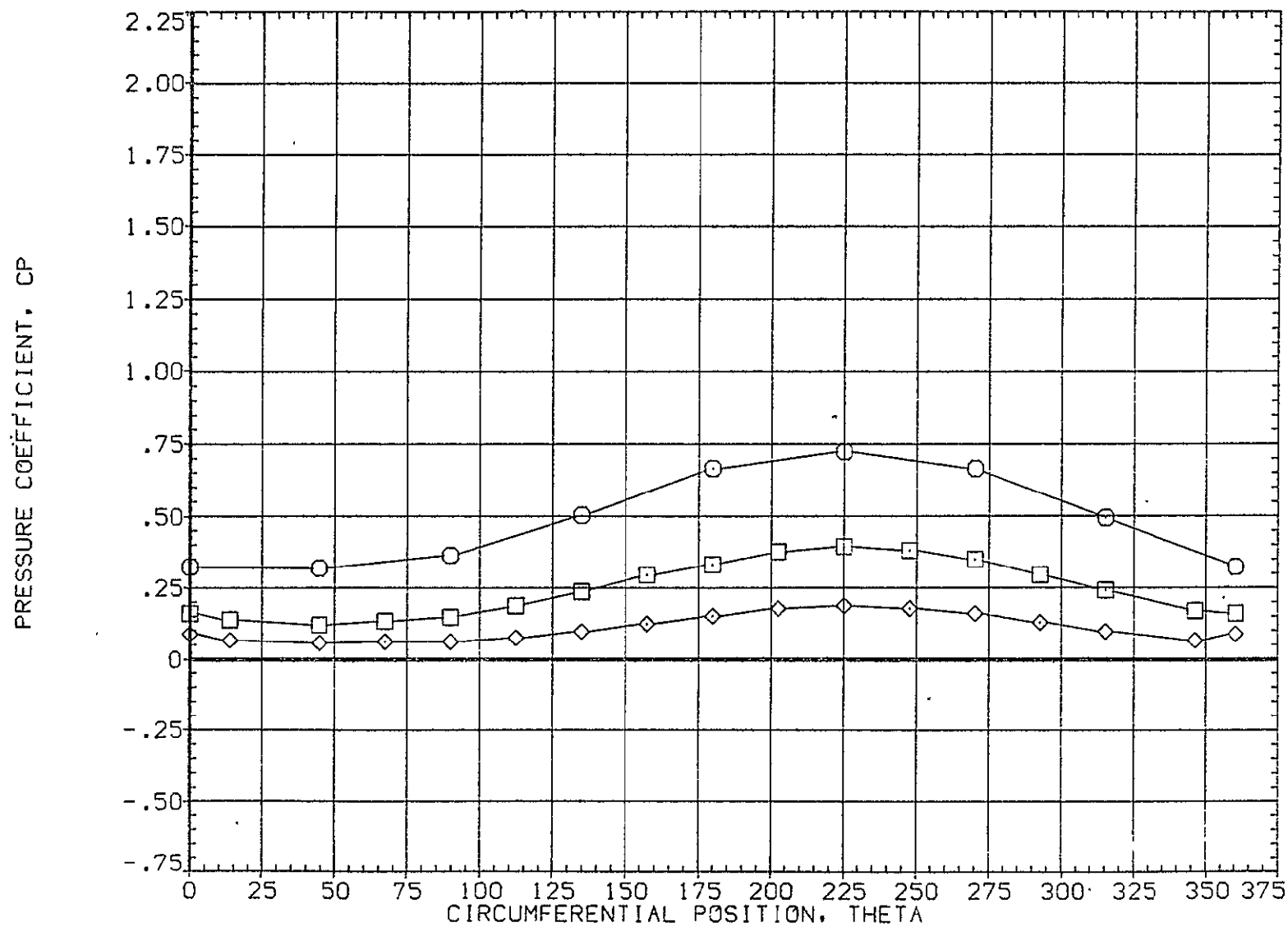


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

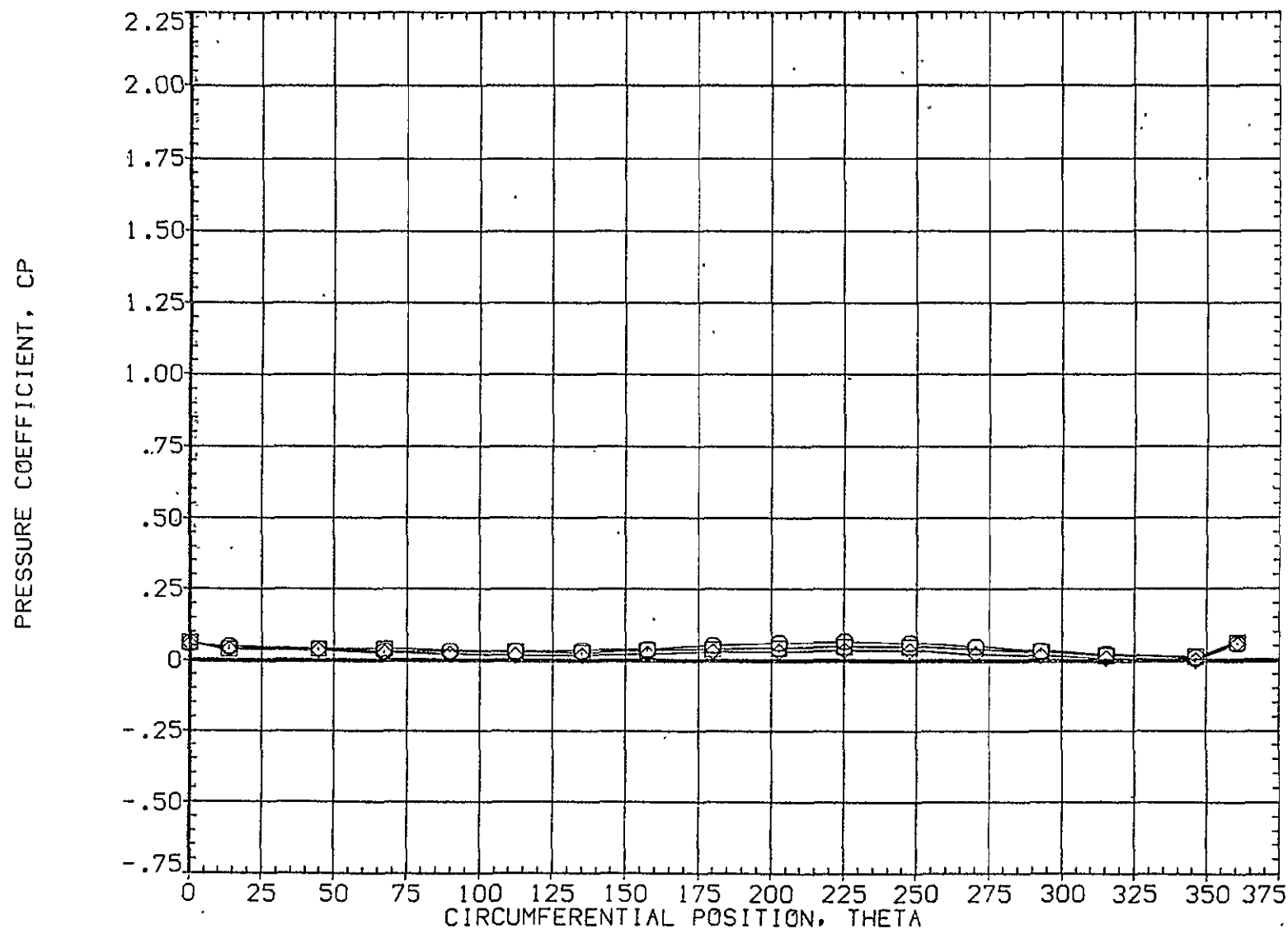
SYMBOL
○
□
◇X/LB
.216
.322
.518
ALPHA
-8.310
MACH
4.960PARAMETRIC VALUES
BETA
MOUNT
.000
1.000
OFFSET
PHI
.000
225.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A041)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-8.310	4.960	.000		.000	
□	.735			1.000	PHI	225.000	
◇	.860						

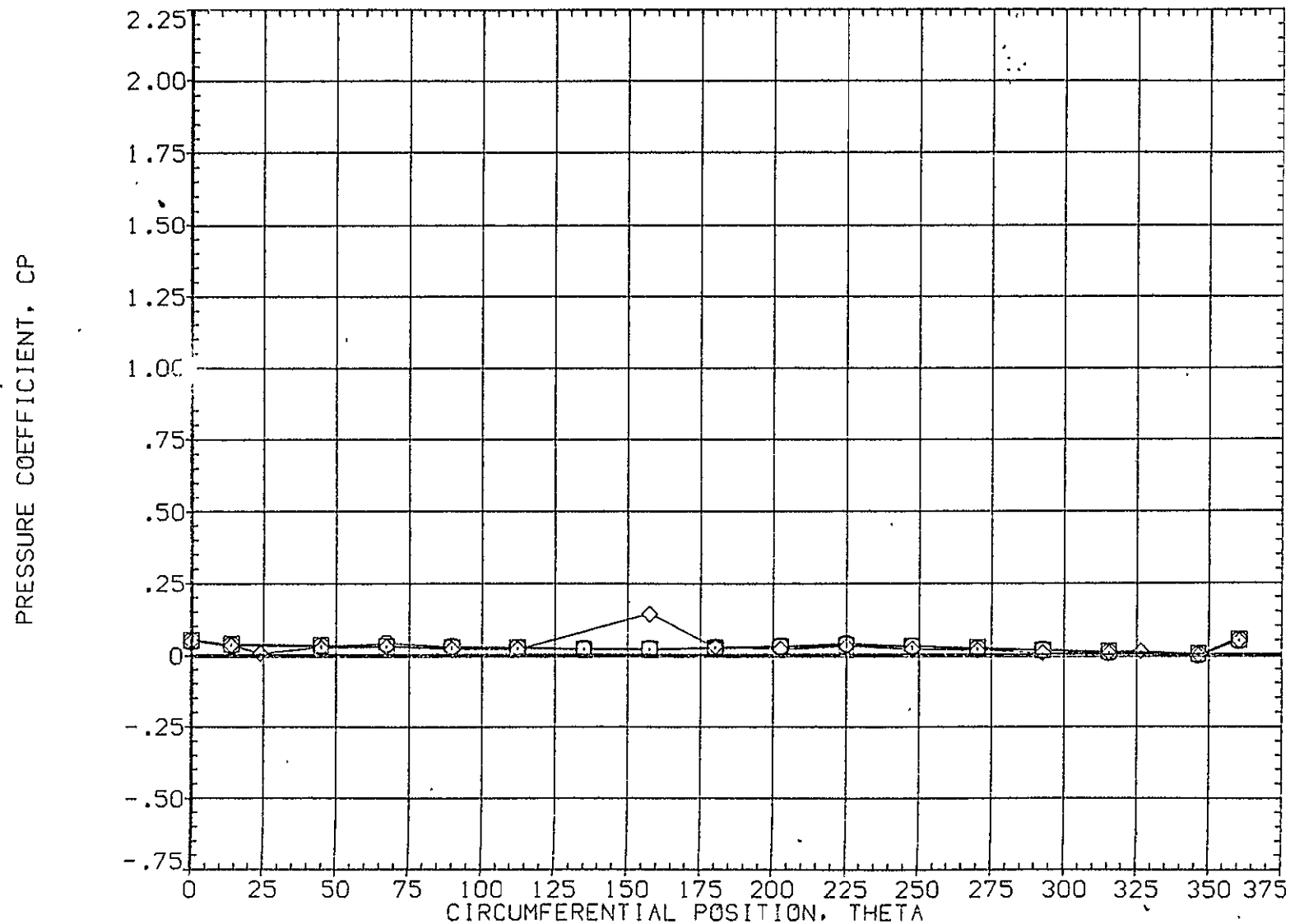


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

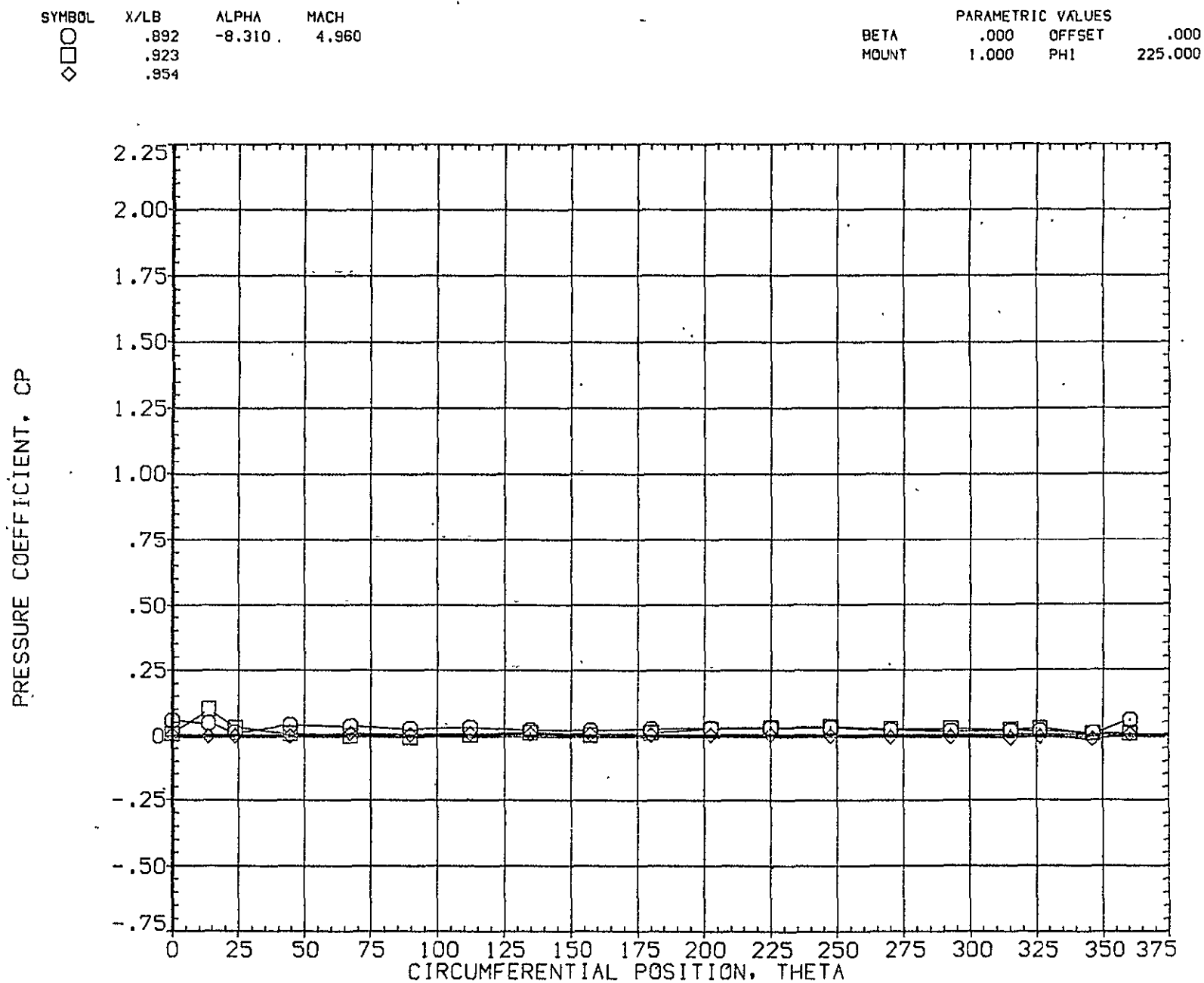


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A042)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	-4.290	4.960	MOUNT	1.000	PHI
□	.108					
◇	.162					

BETA .000
MOUNT 1.000
OFFSET .000
PHI 225.000

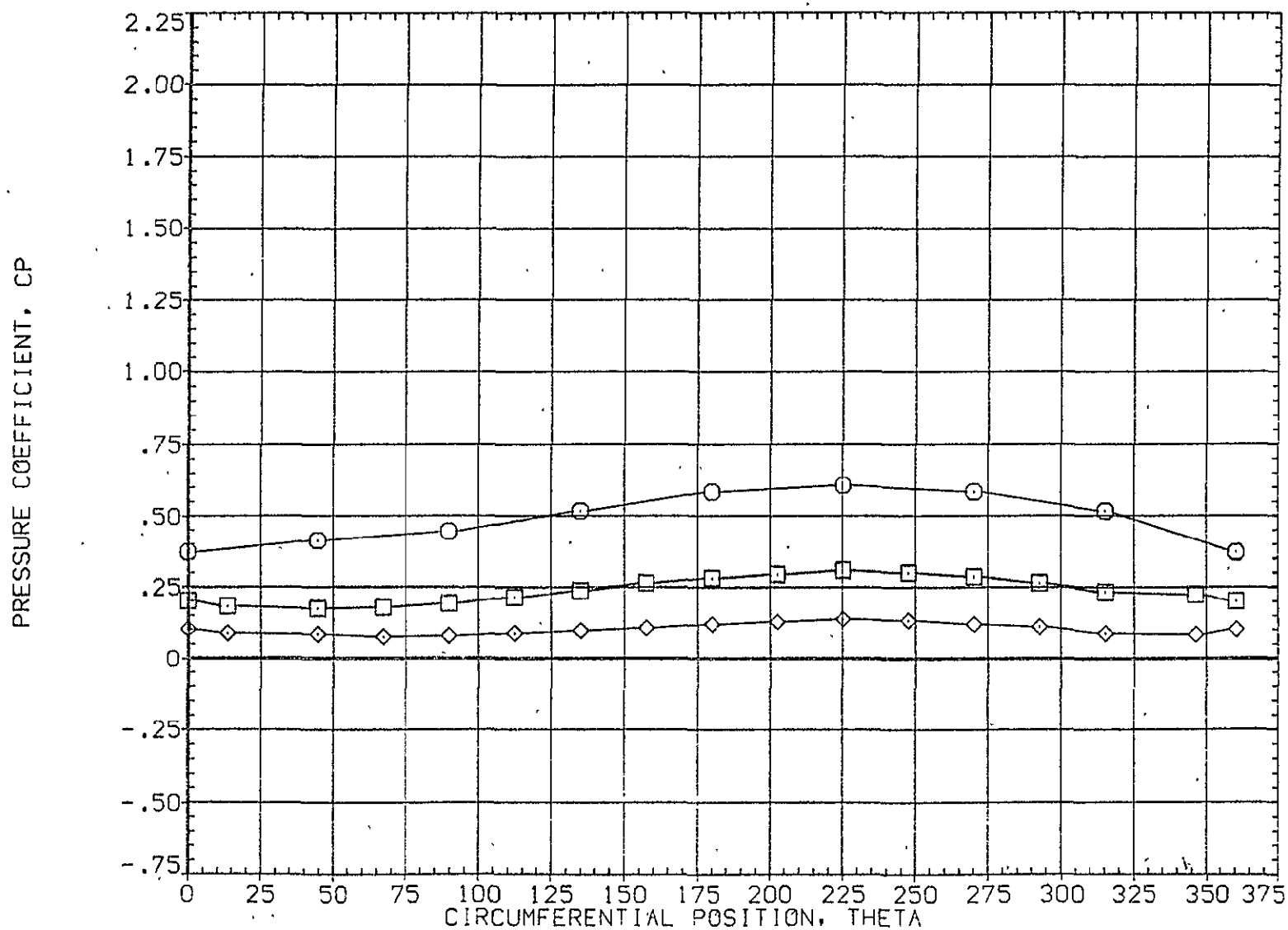


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.216	-4.290	4.960	.000	OFFSET .000
□	.322			1.000	PHI 225.000
◇	.518				

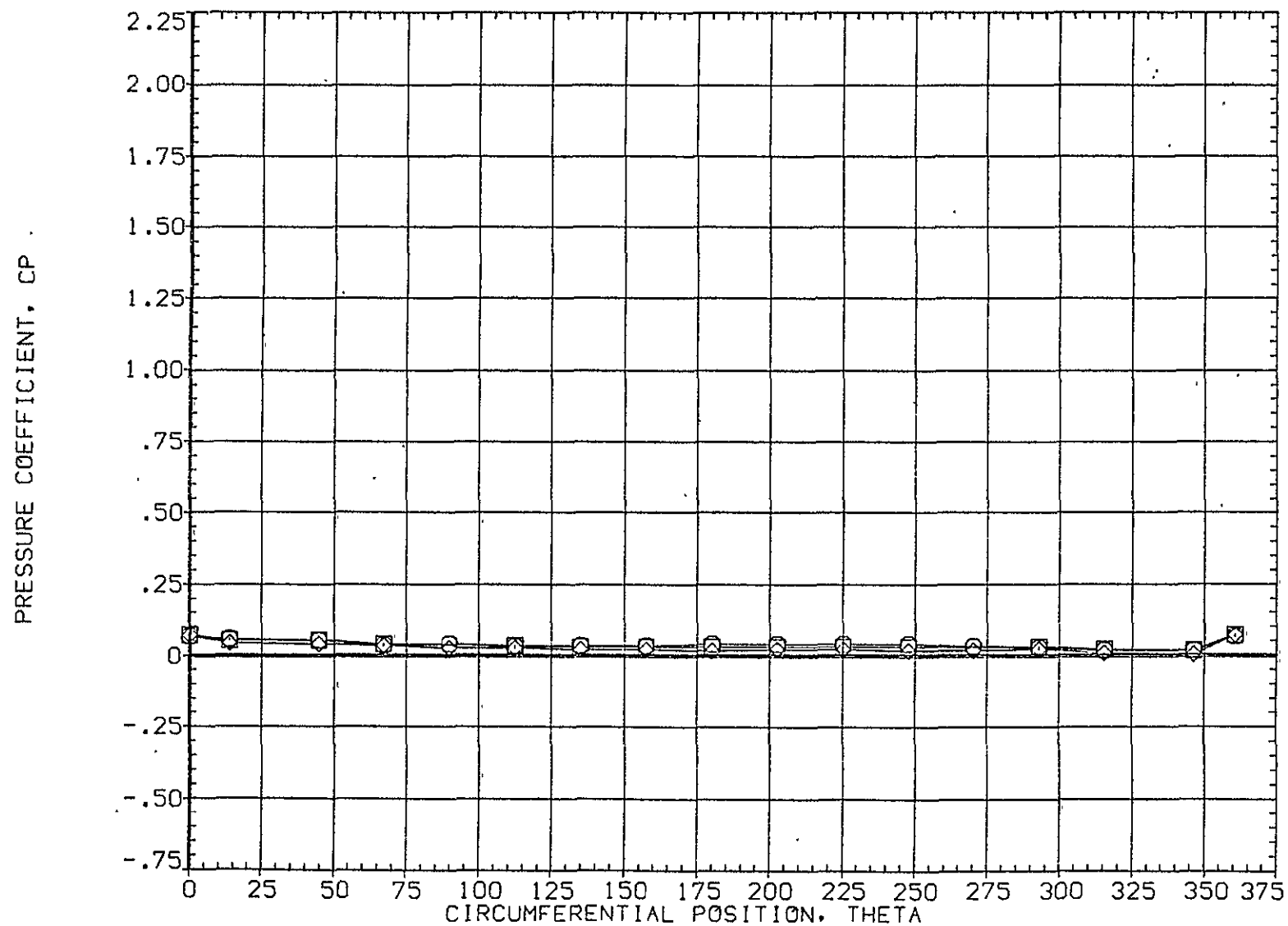


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A042)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-4.290	4.960	.000		.000	
□	.735			1.000	PHI	225.000	
◇	.860						

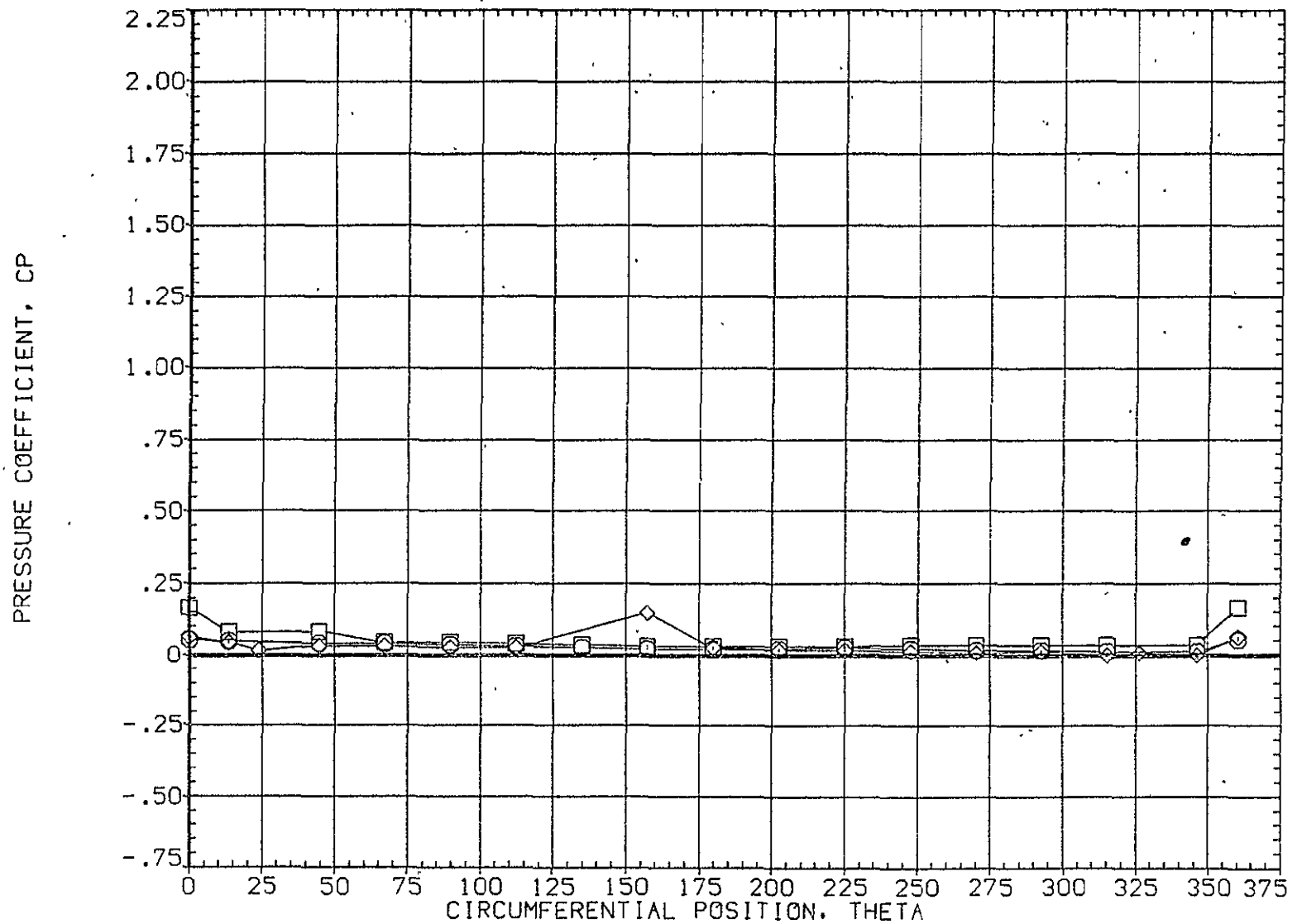


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-4.290	4.960	.000	.000	
□	.923			1.000	PHI	225.000
◇	.954					

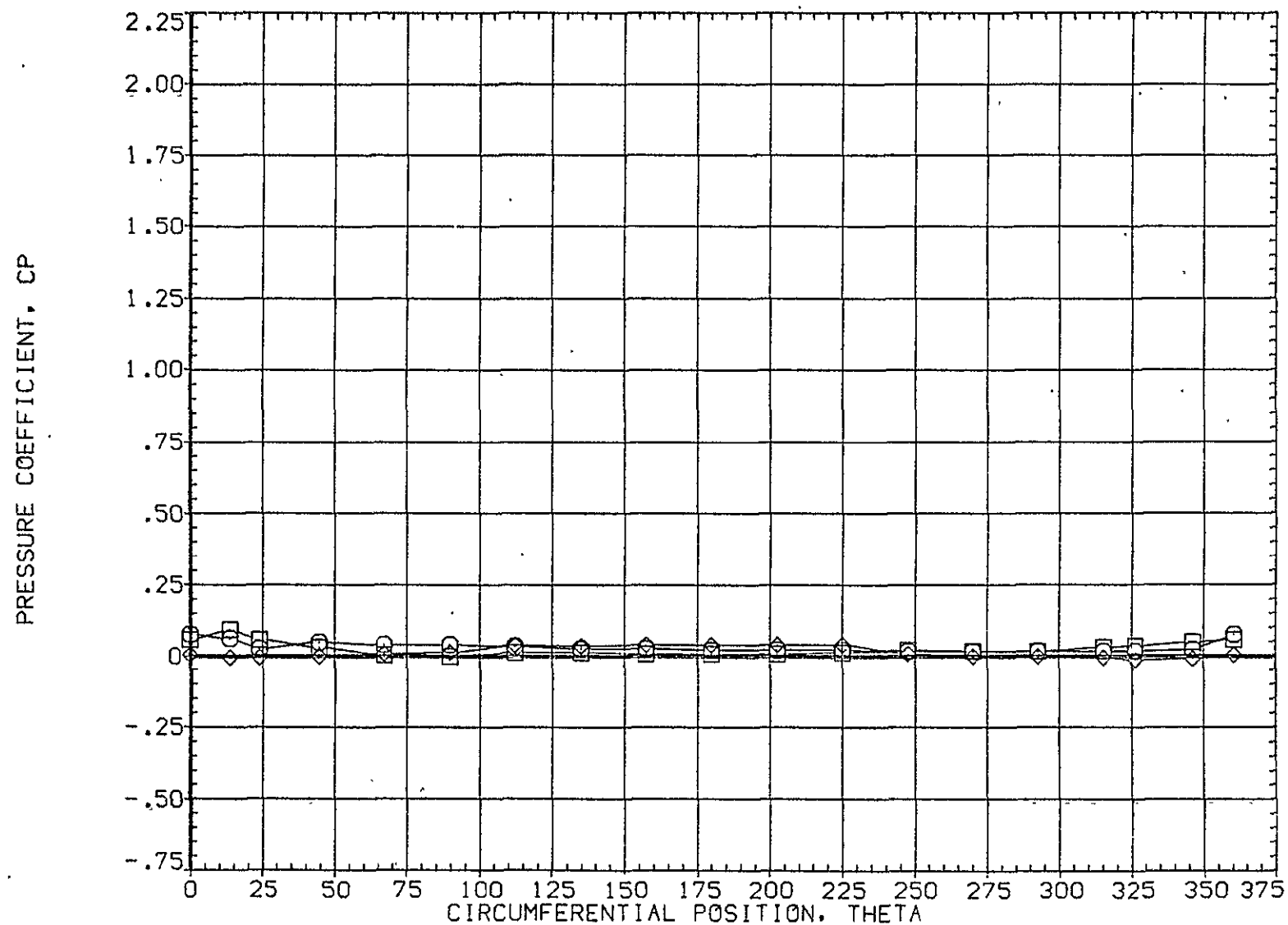


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A043)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	-.280	4.960	MOUNT	.000	PHI	225.000
□	.108				1.000		
◇	.162						

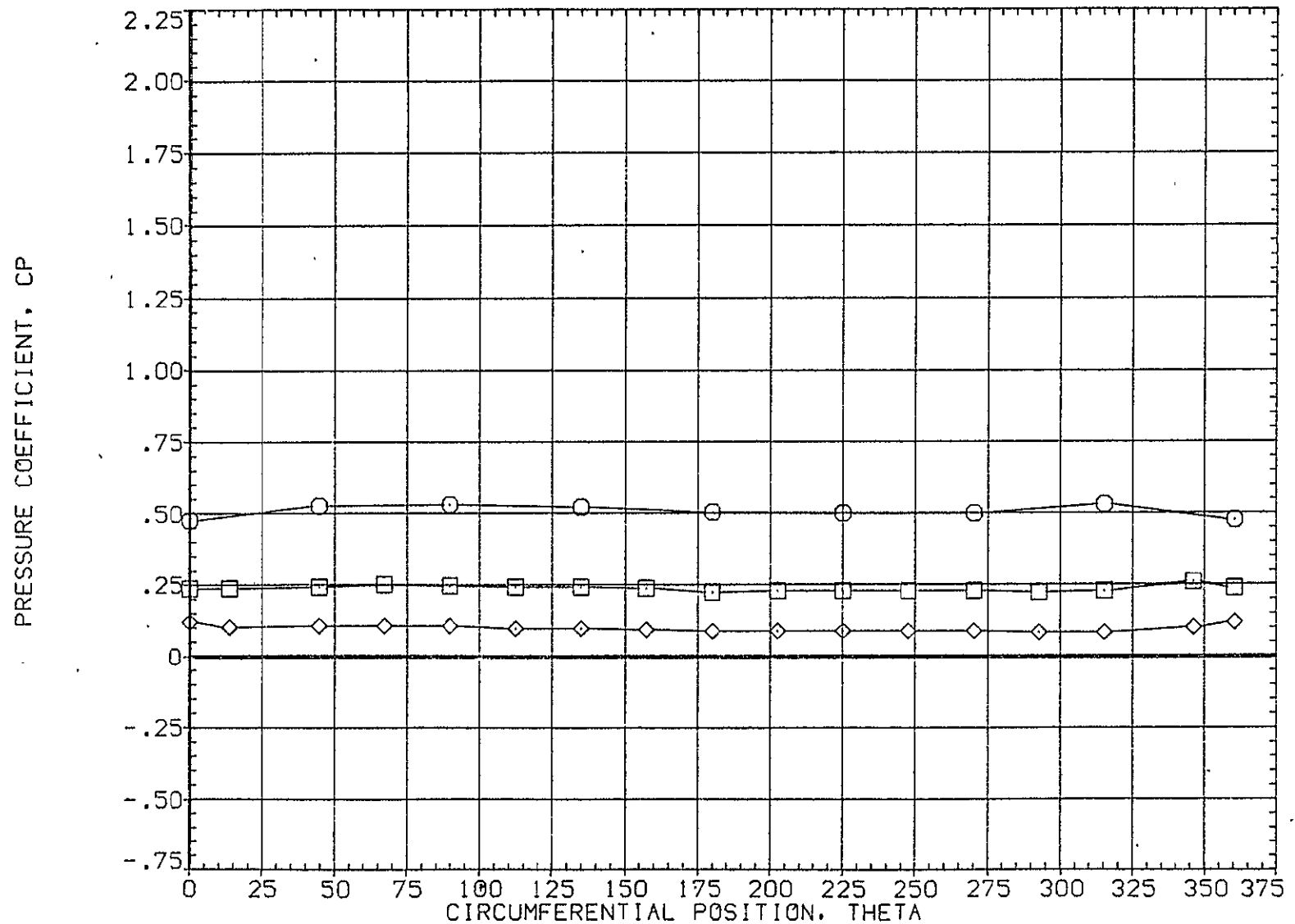


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	PHI
○	.216	-.280	4.960	.000	.000	
□	.322			1.000		225.000
◇	.518					

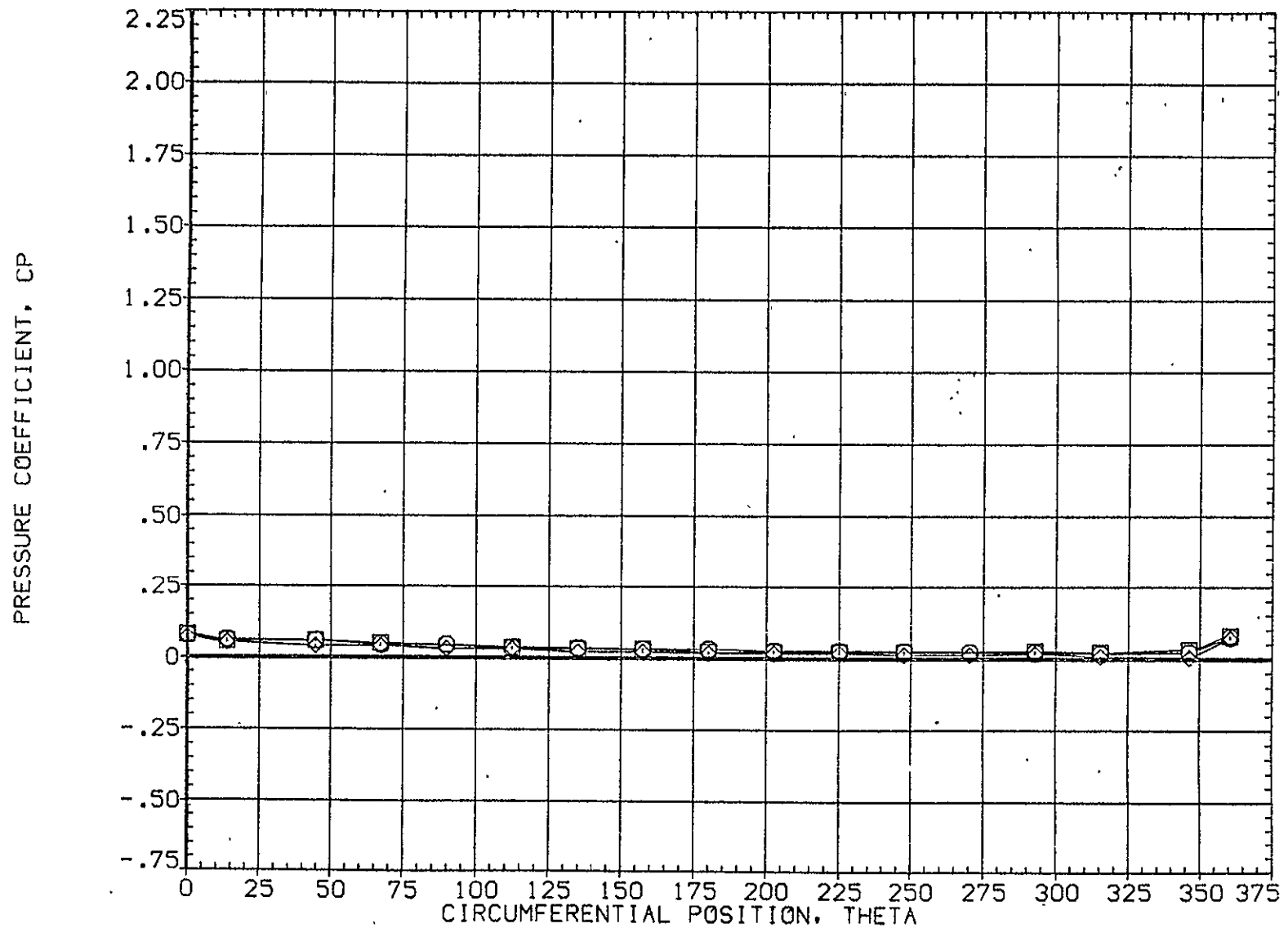


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A043)

SYMBOL	X/LB	ALPHA	MACH
○	.610	-.280	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	225.000

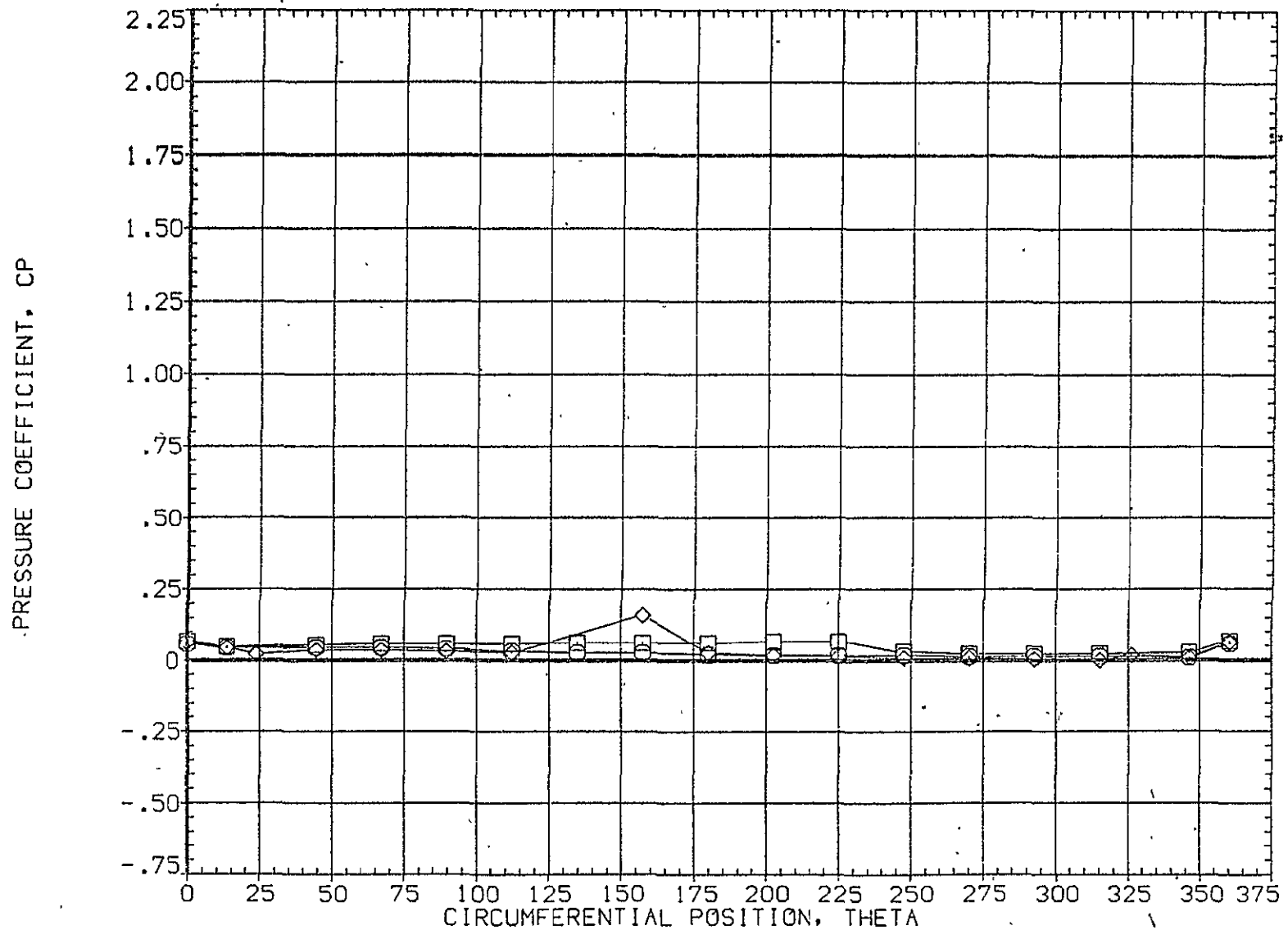


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 225.000
○	.892	-.280	4.960			
□	.923					
◇	.954					

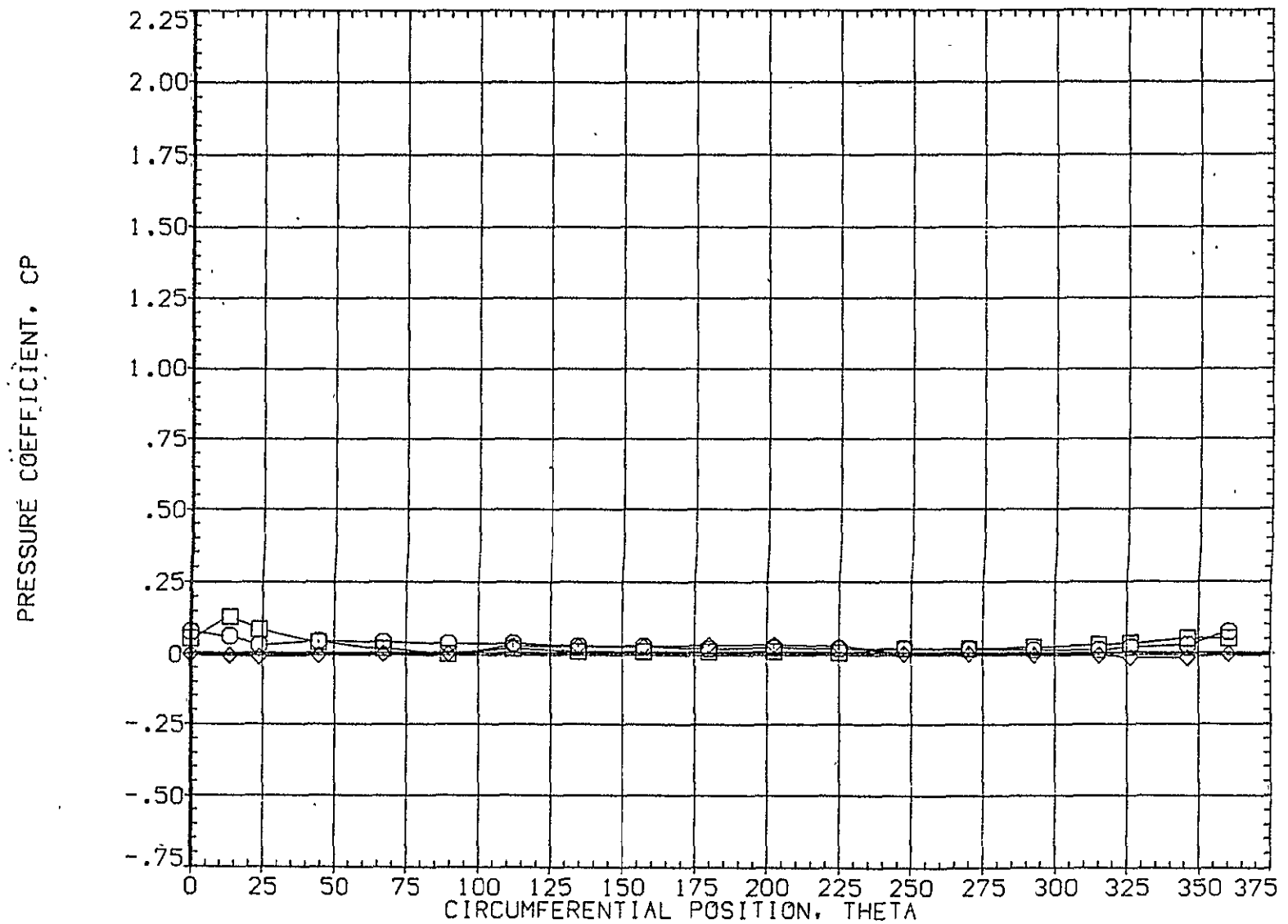


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A044)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	3.730	4.960	MOUNT	1.000	PHI	225.000
□	.108						
◇	.162						

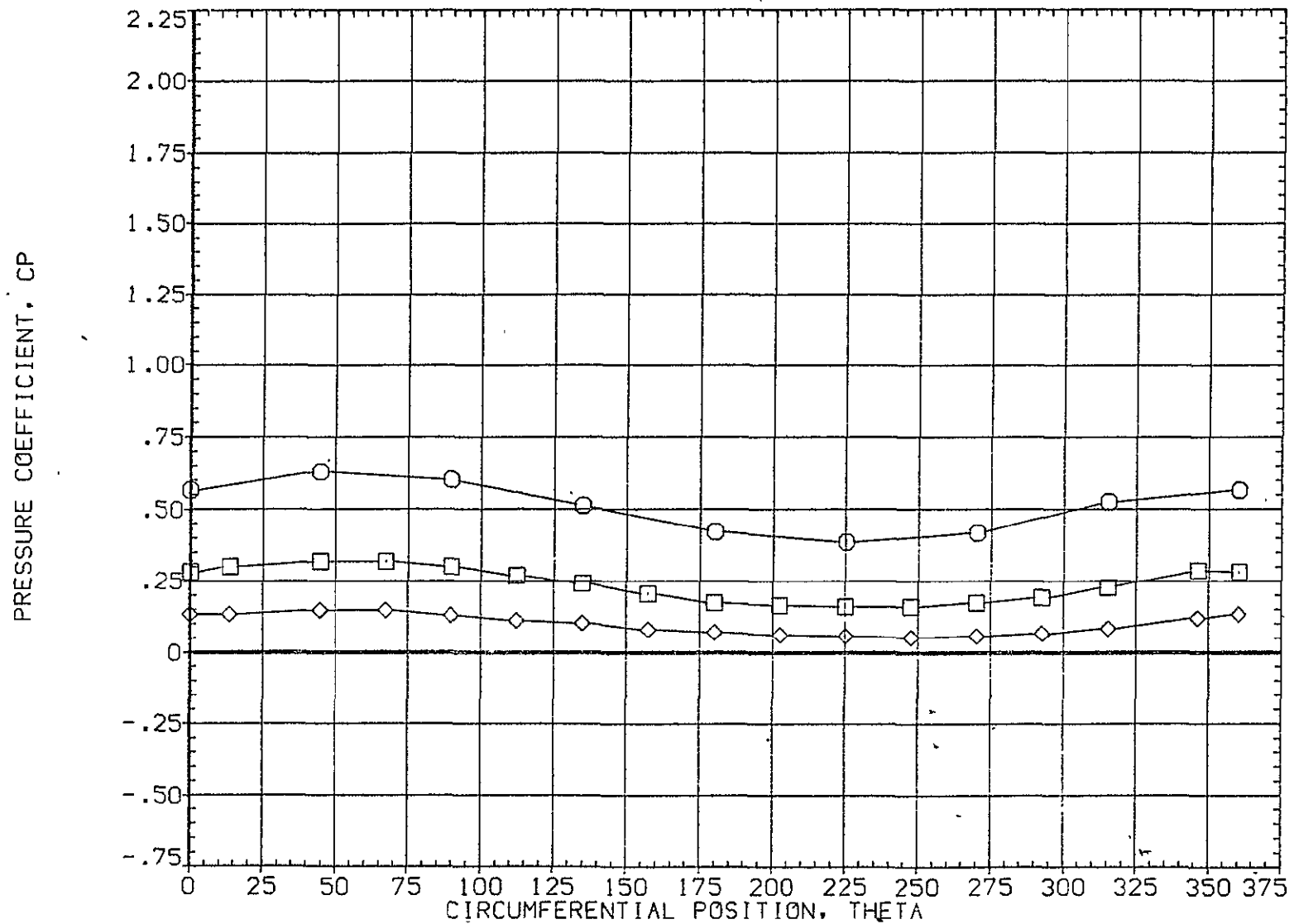


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	3.730	4.960	.000	.000	
□	.322			1.000	PHI	225.000
◇	.518					

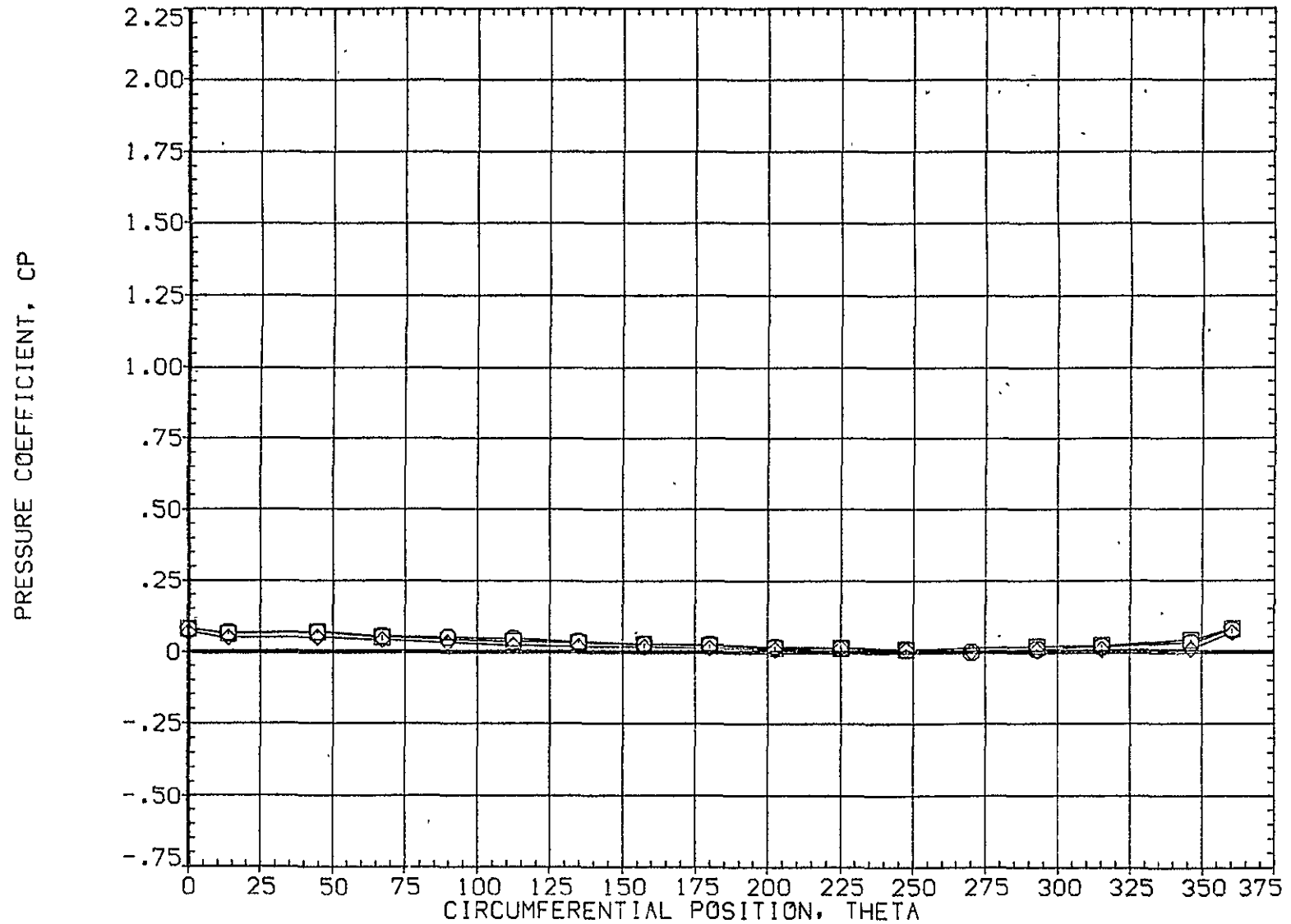


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK,

(P1A044)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	3.730	4.960	.000		.000	
□	.735			1.000	PHI	225.000	
◇	.860						

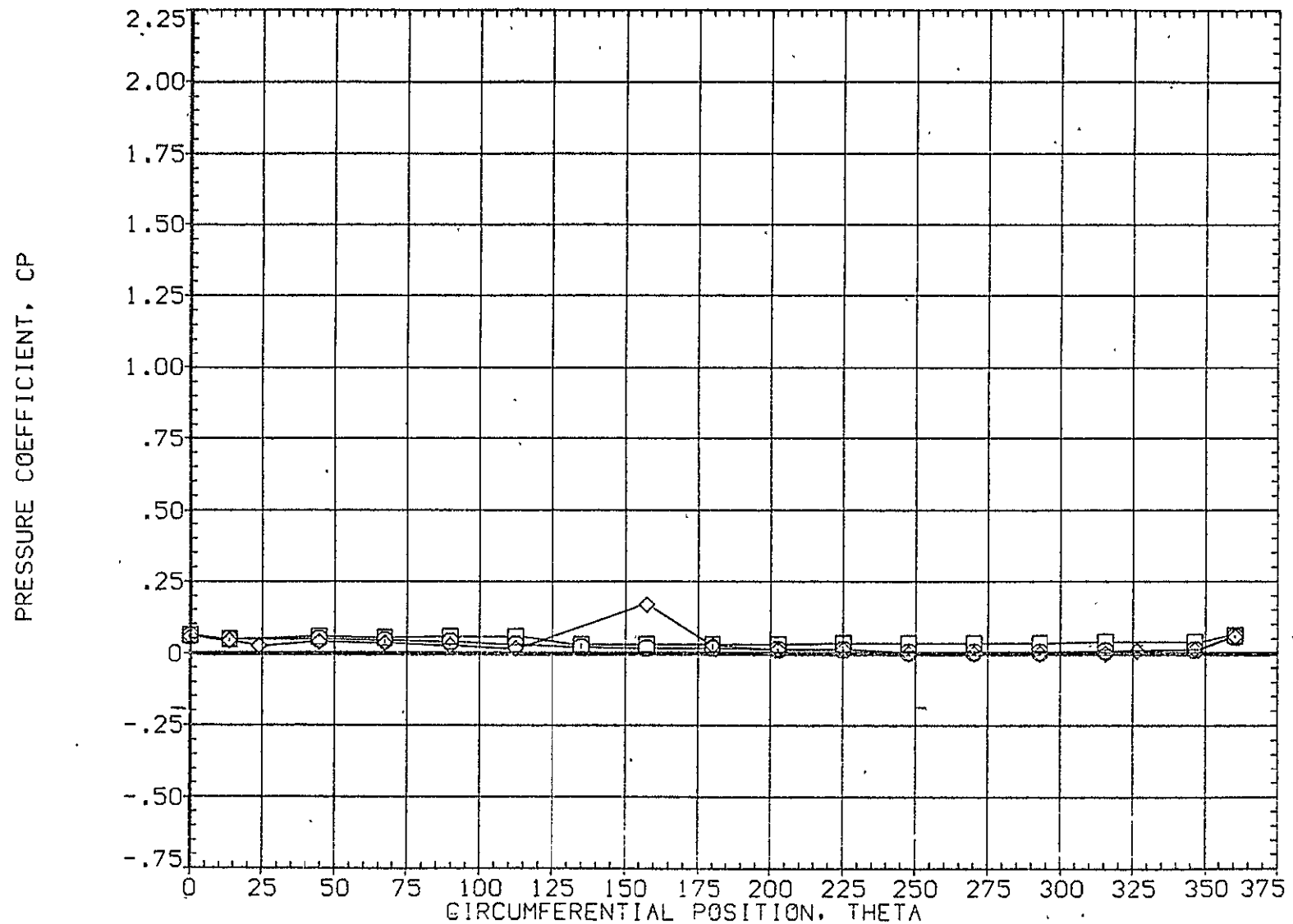


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

ALPHA

MACH

.892

3.730

4.960

.923

.954

BETA

PARAMETRIC VALUES

.000

OFFSET

.000

MOUNT

1.000

PHI

225.000

PRESSURE COEFFICIENT, CP

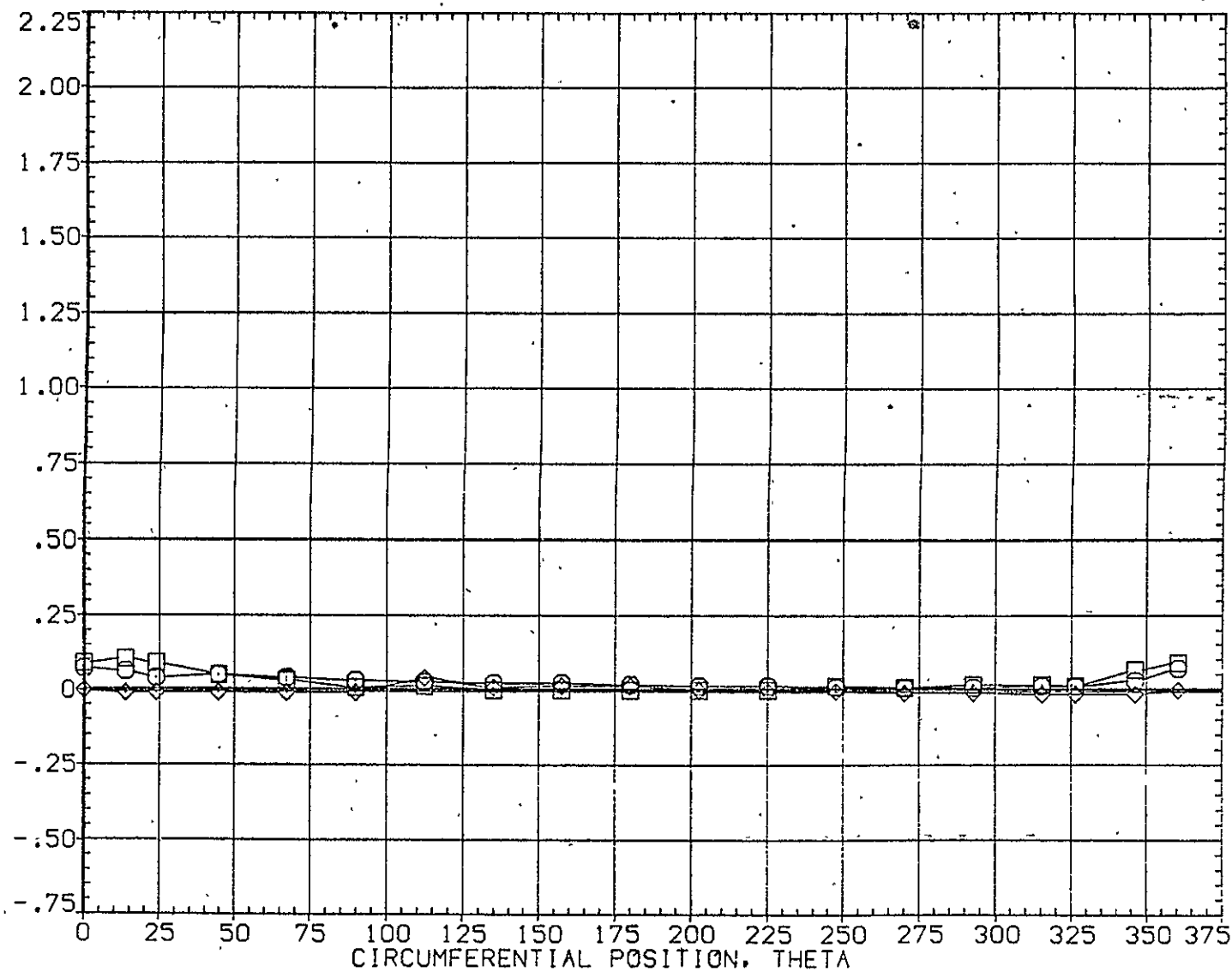


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A045)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	7.750	4.960	MOUNT	1.000	PHI	225.000
□	.108						
◇	.162						

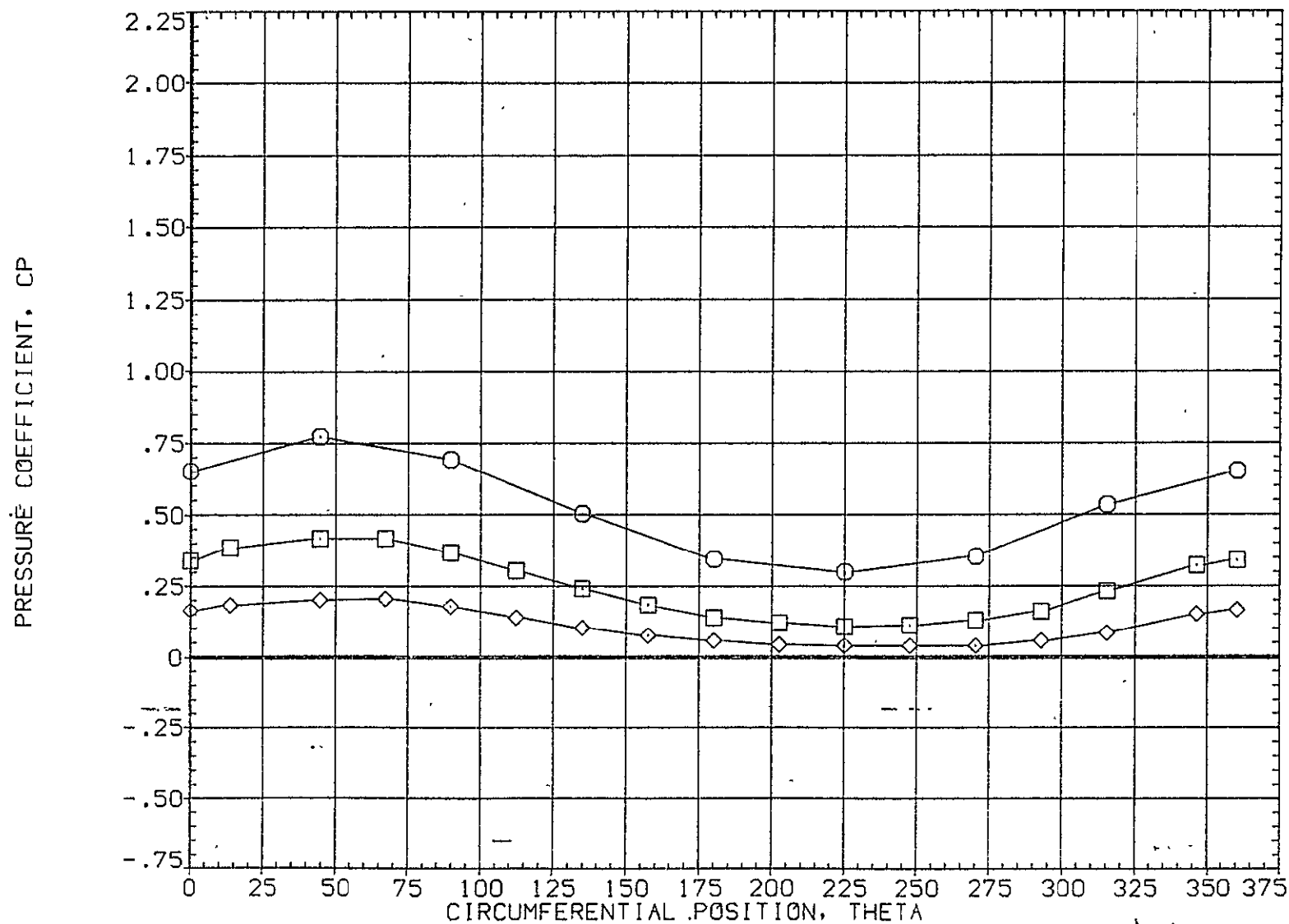


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.216	7.750	4.960	MOUNT	.000	OFFSET	.000
□	.322				1.000	PHI	225.000
◇	.518						

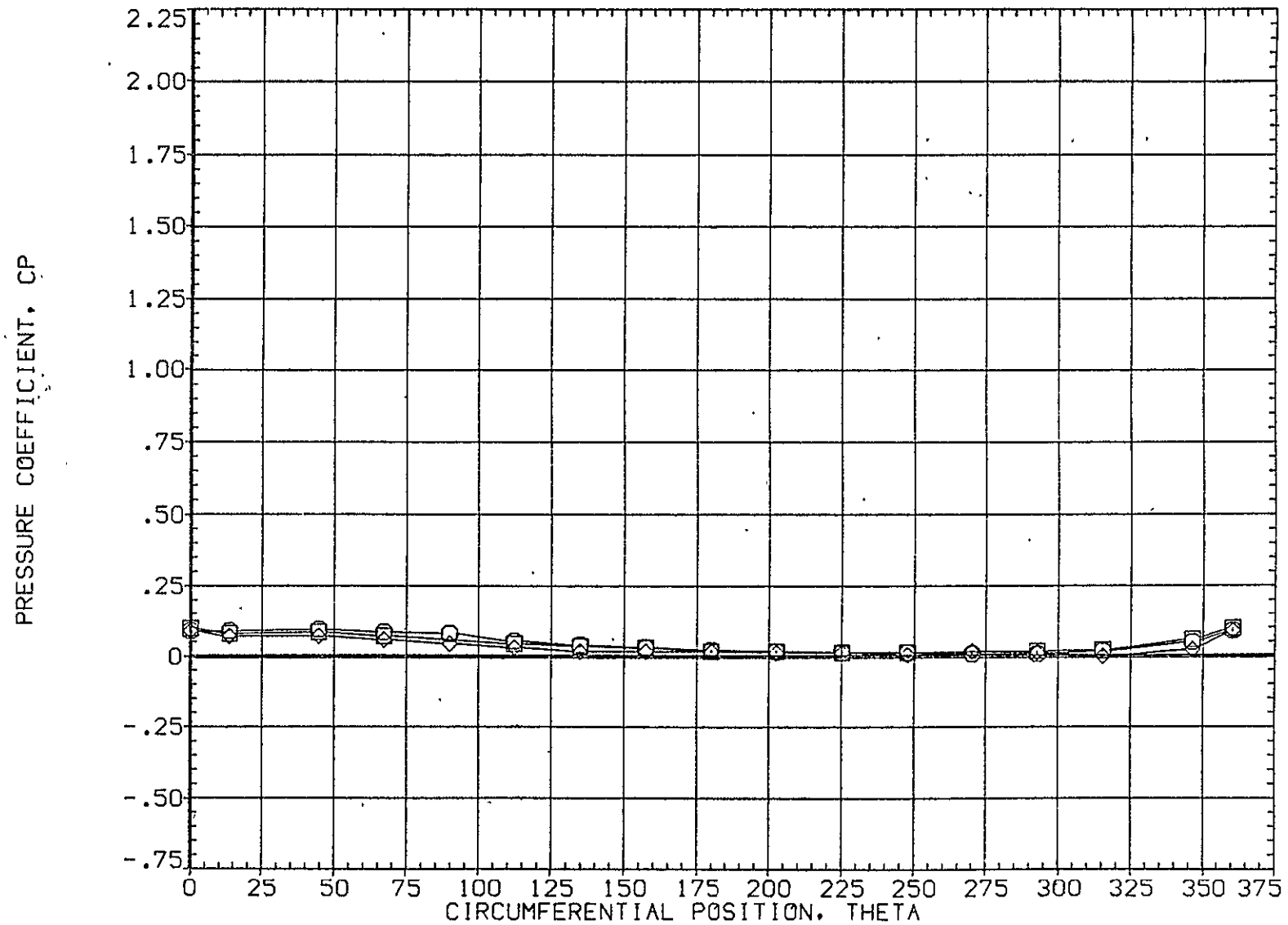


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A045)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	7.750	4.960	MOUNT	.000	PHI	.000
□	.735				1.000		225.000
◇	.860						

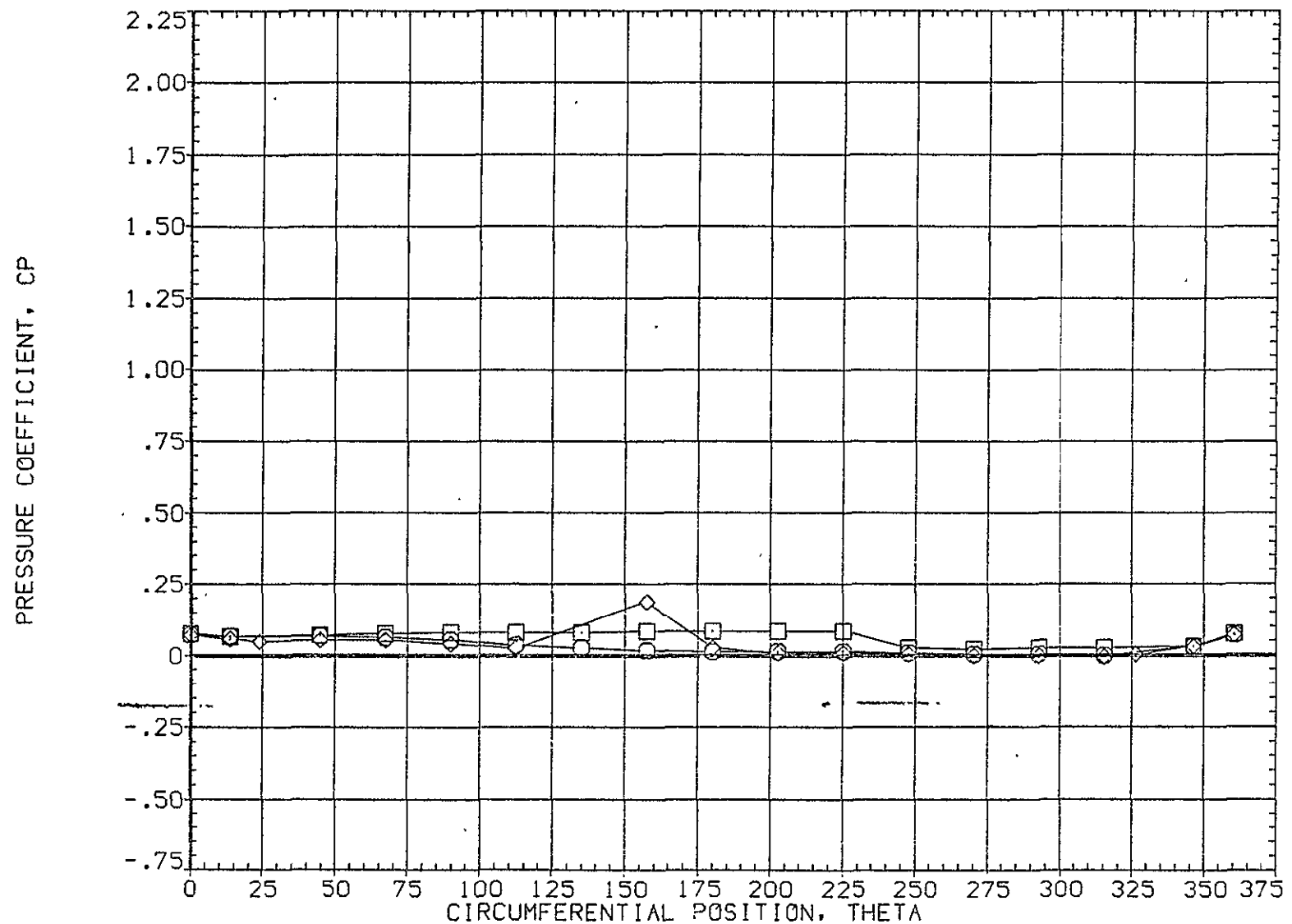


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	OFFSET PHI
○	.892	7.750	4.960		.000	.000
□	.923				1.000	
◇	.954					225.000

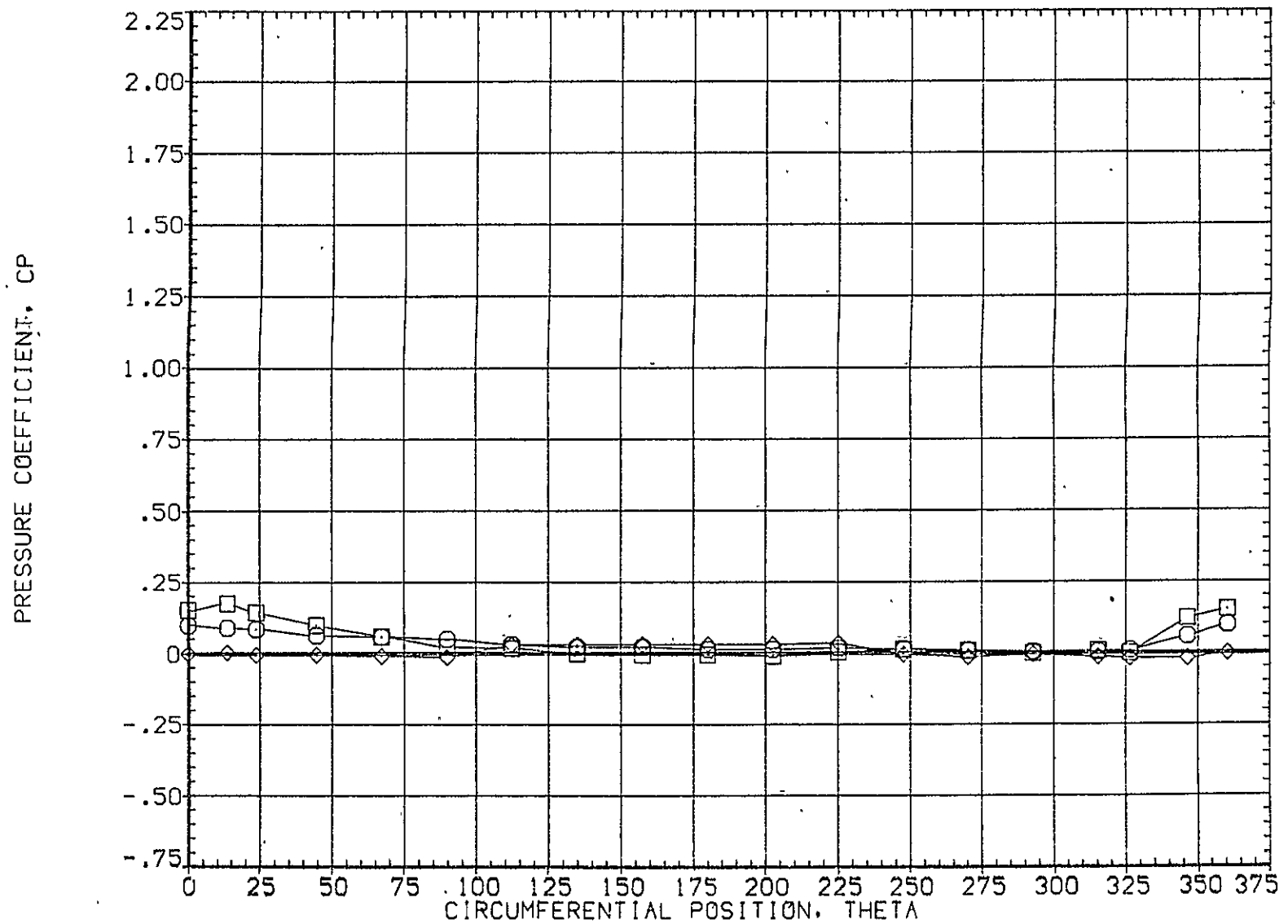


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A046)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20,000
○	.055	12.450	4.960	MOUNT	.000	PHI	225.000
□	.108				1.000		
◇	.162						

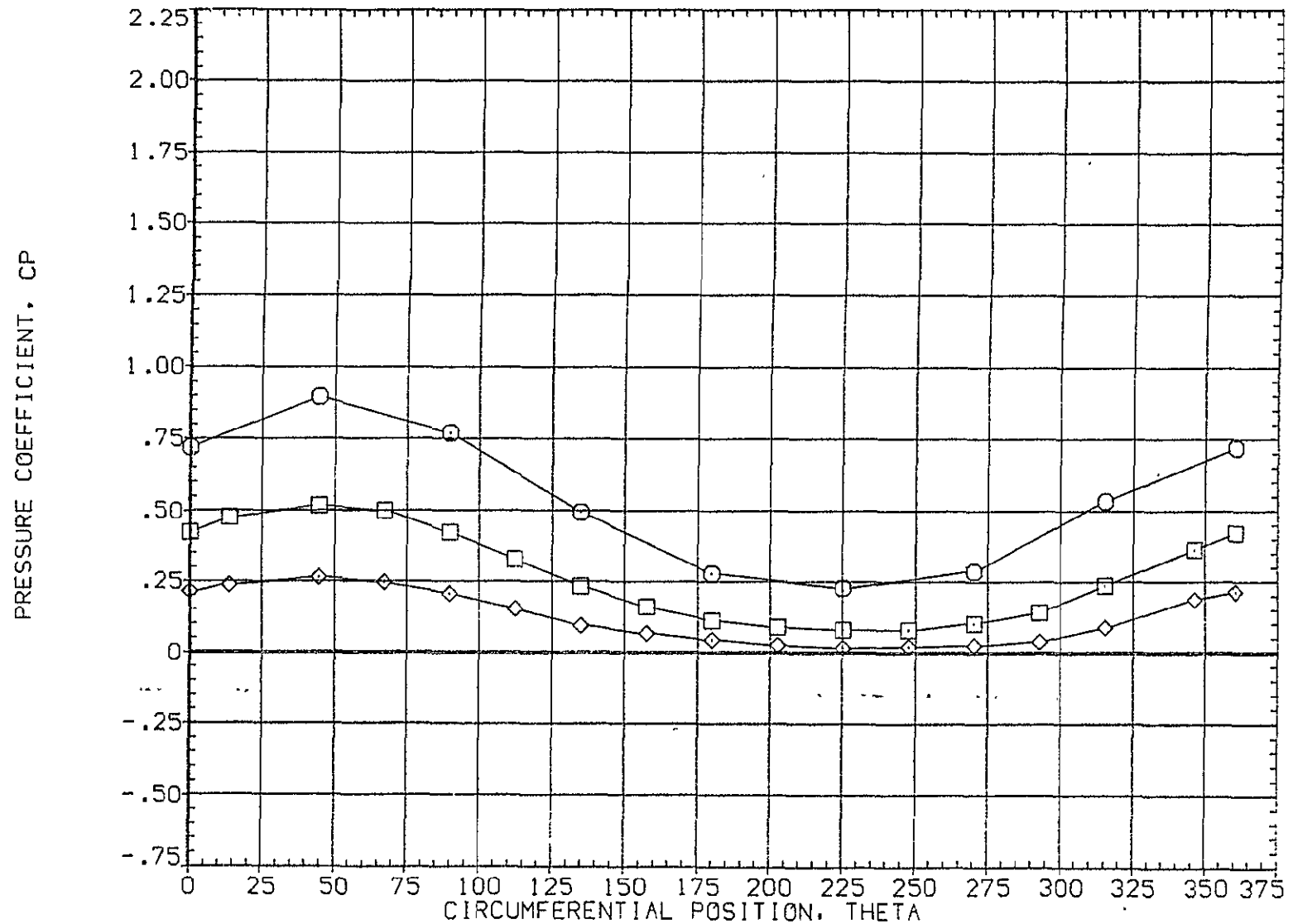


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES.

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	12.450	4.960	MOUNT	1.000	PHI
□	.322					20.000
◇	.518					225.000

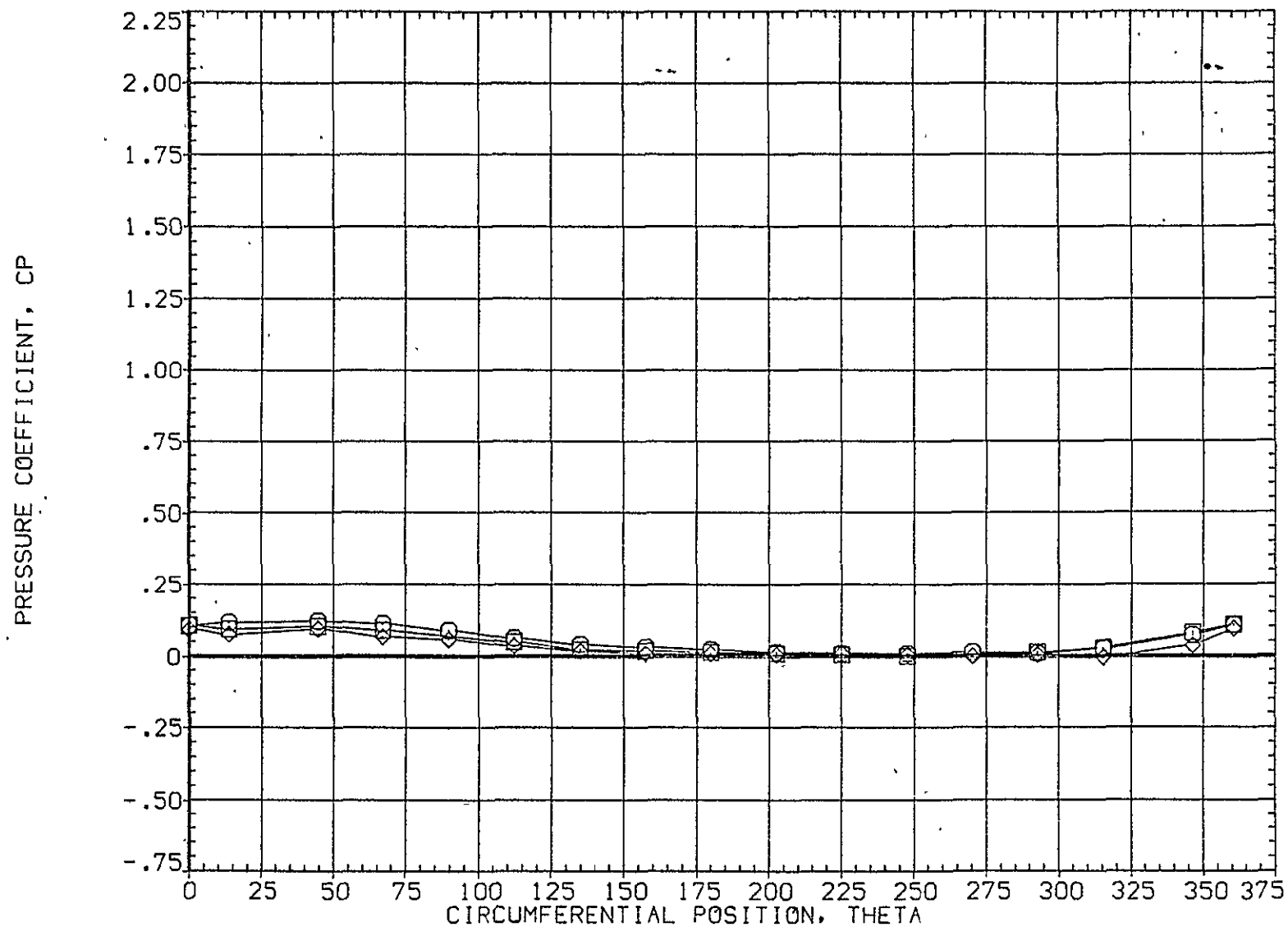


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A046)

SYMBOL	X/LB	ALPHA	MACH
○	.610	12.450	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	225.000

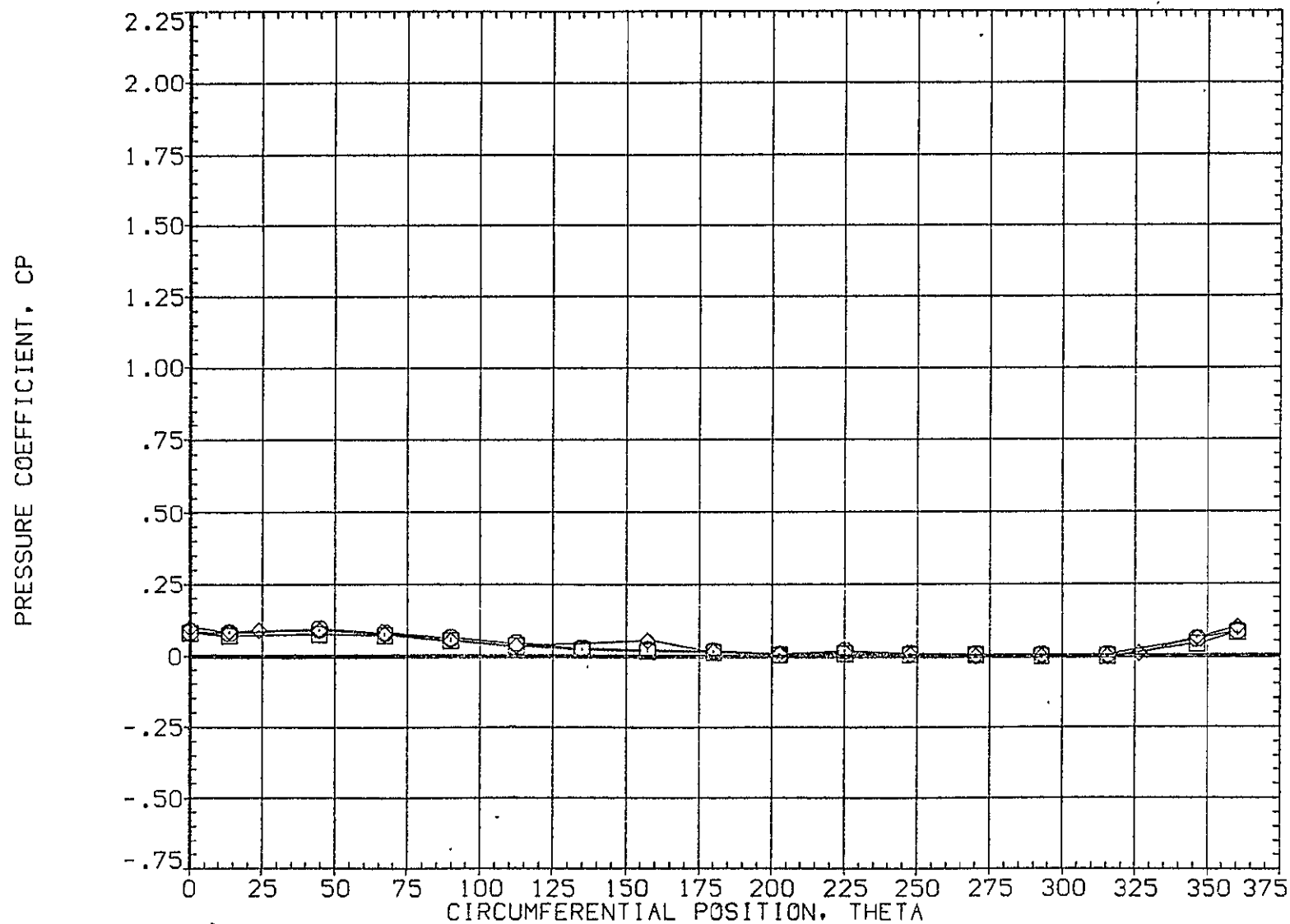


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	12.450	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	225.000

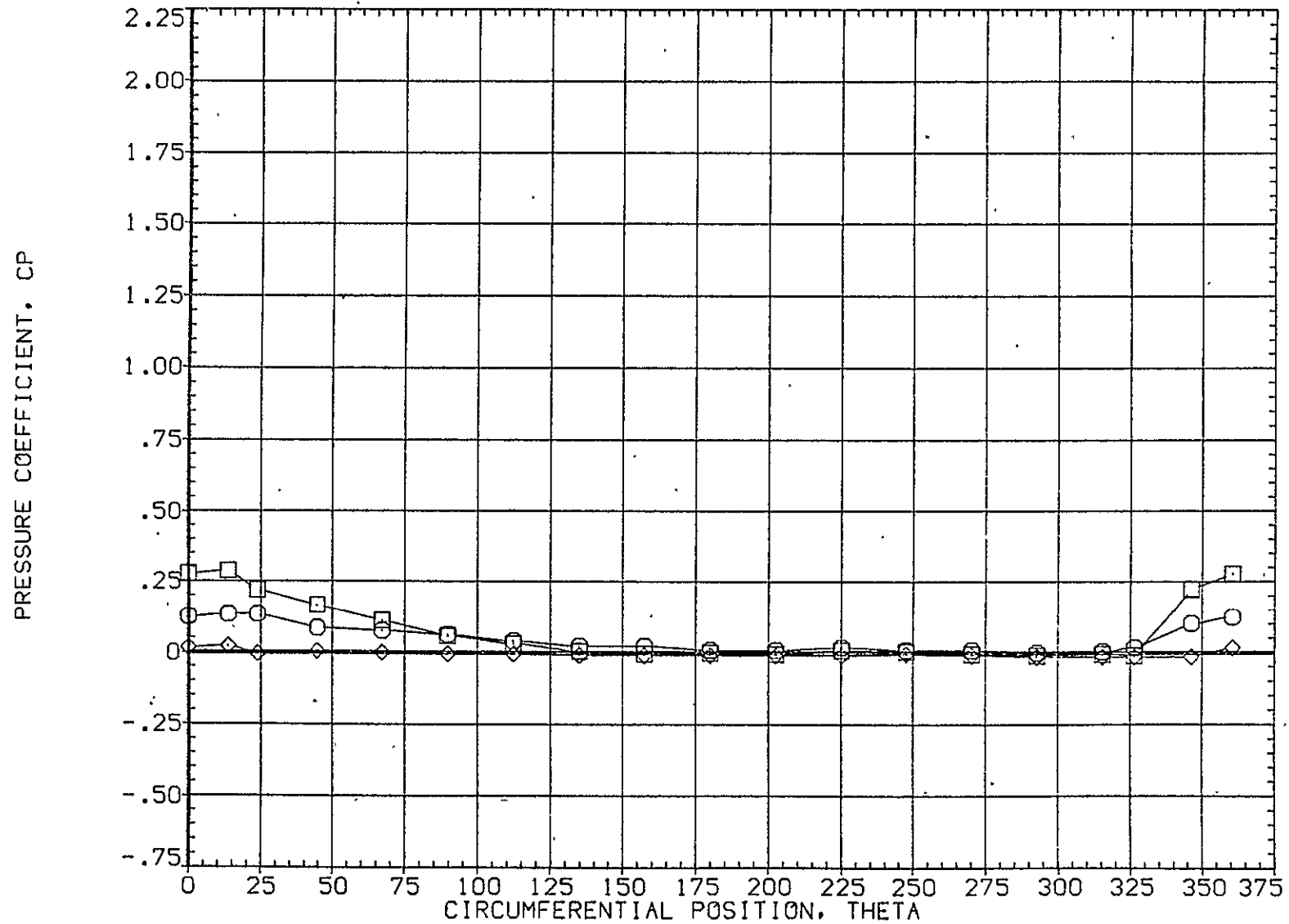


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A047)

SYMBOL	X/LB	ALPHA	MACH
○	.055	16.450	4.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	225.000

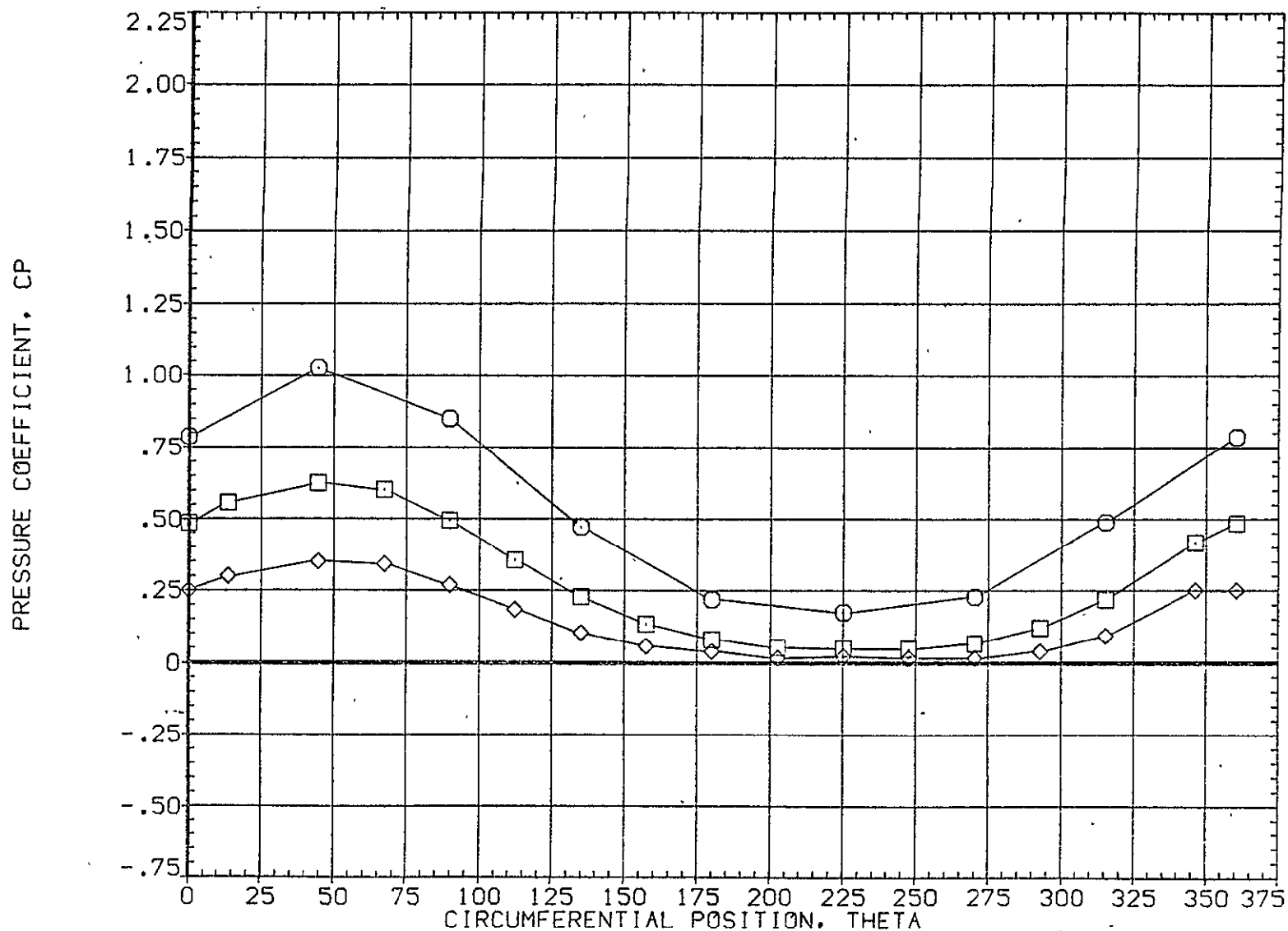


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
○	.216	16.450	4.960	MOUNT	1.000	PHI	225.000
□	.322						
◇	.518						

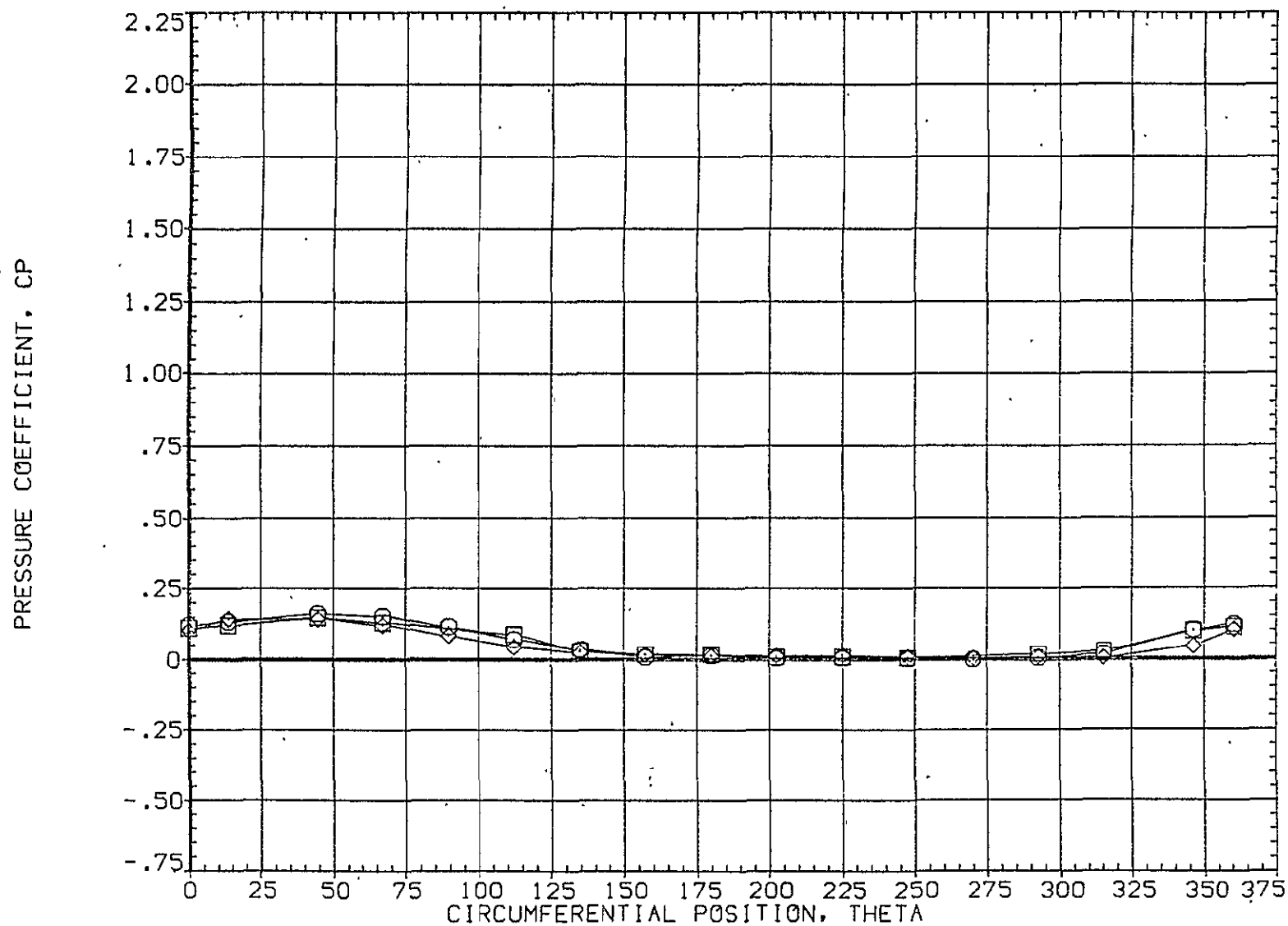


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A047)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
				MOUNT			
○	.610	16.450	4.960		.000		20.000
□	.735				1.000		225.000
◇	.860						

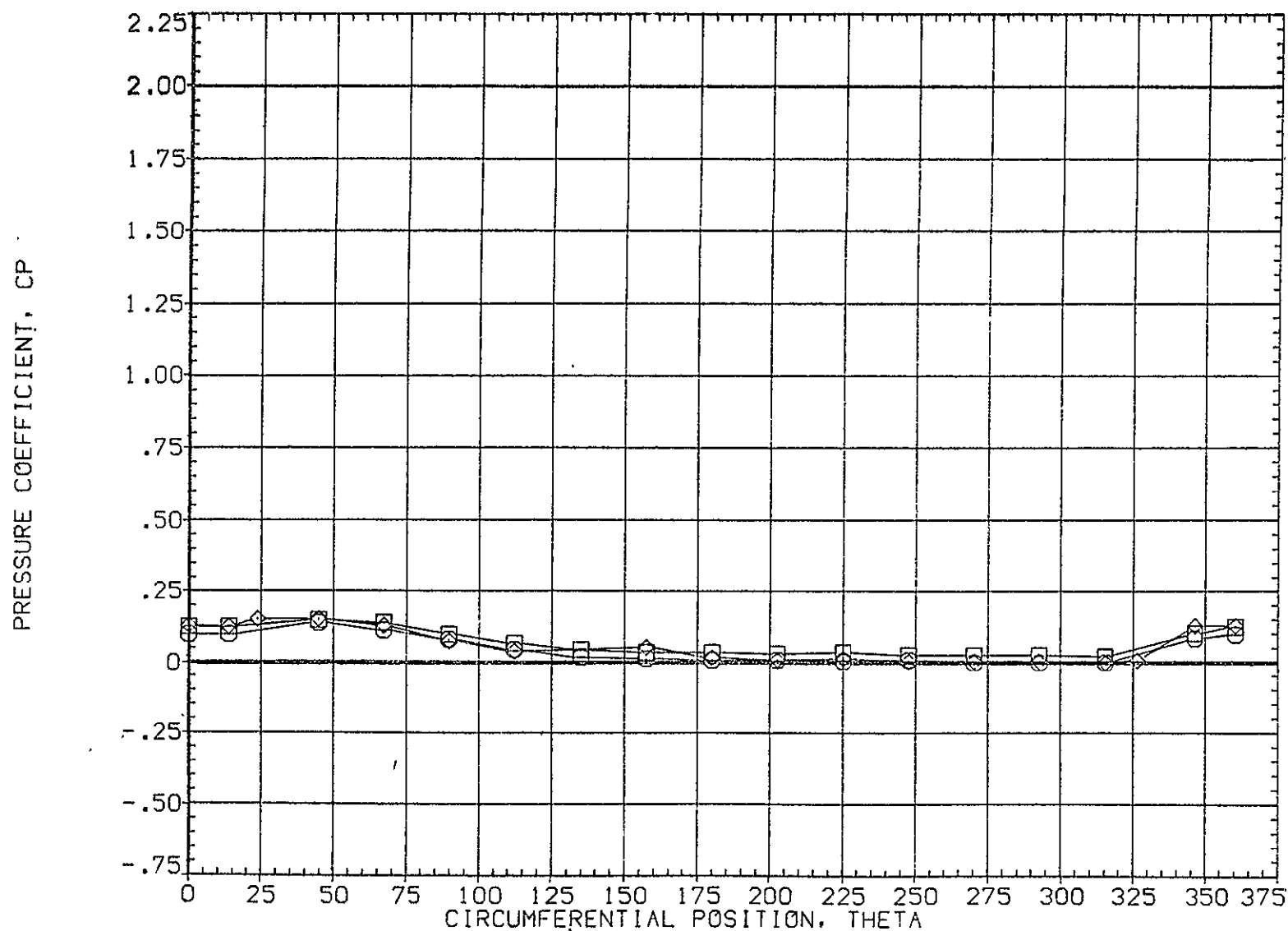


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.892	16.450	4.960	.000	OFFSET 20.000
□	.923			1.000	PHI 225.000
◇	.954				

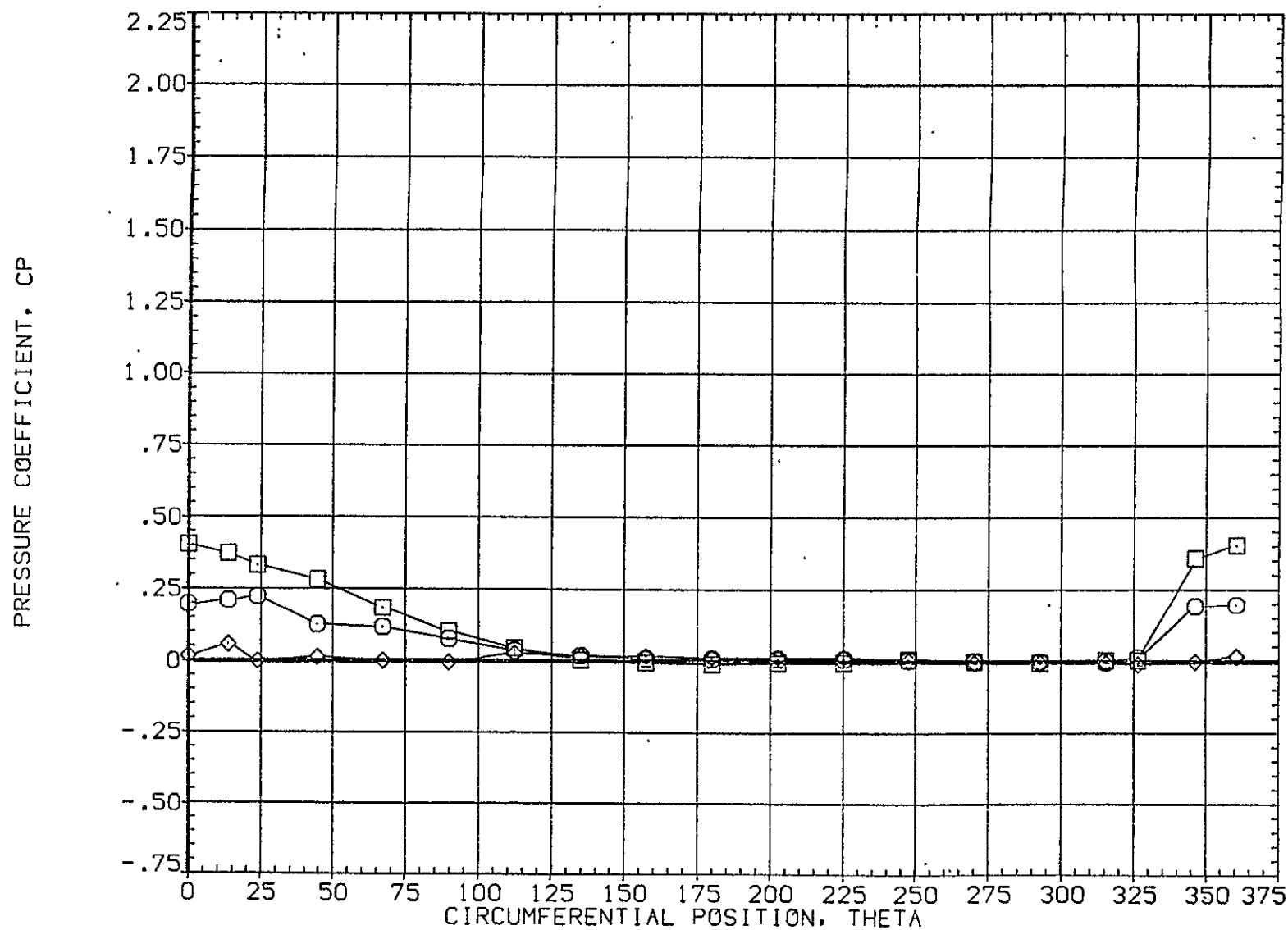


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A048)

SYMBOL	X/LB	ALPHA	MACH
○	.055	20.490	4.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	225.000

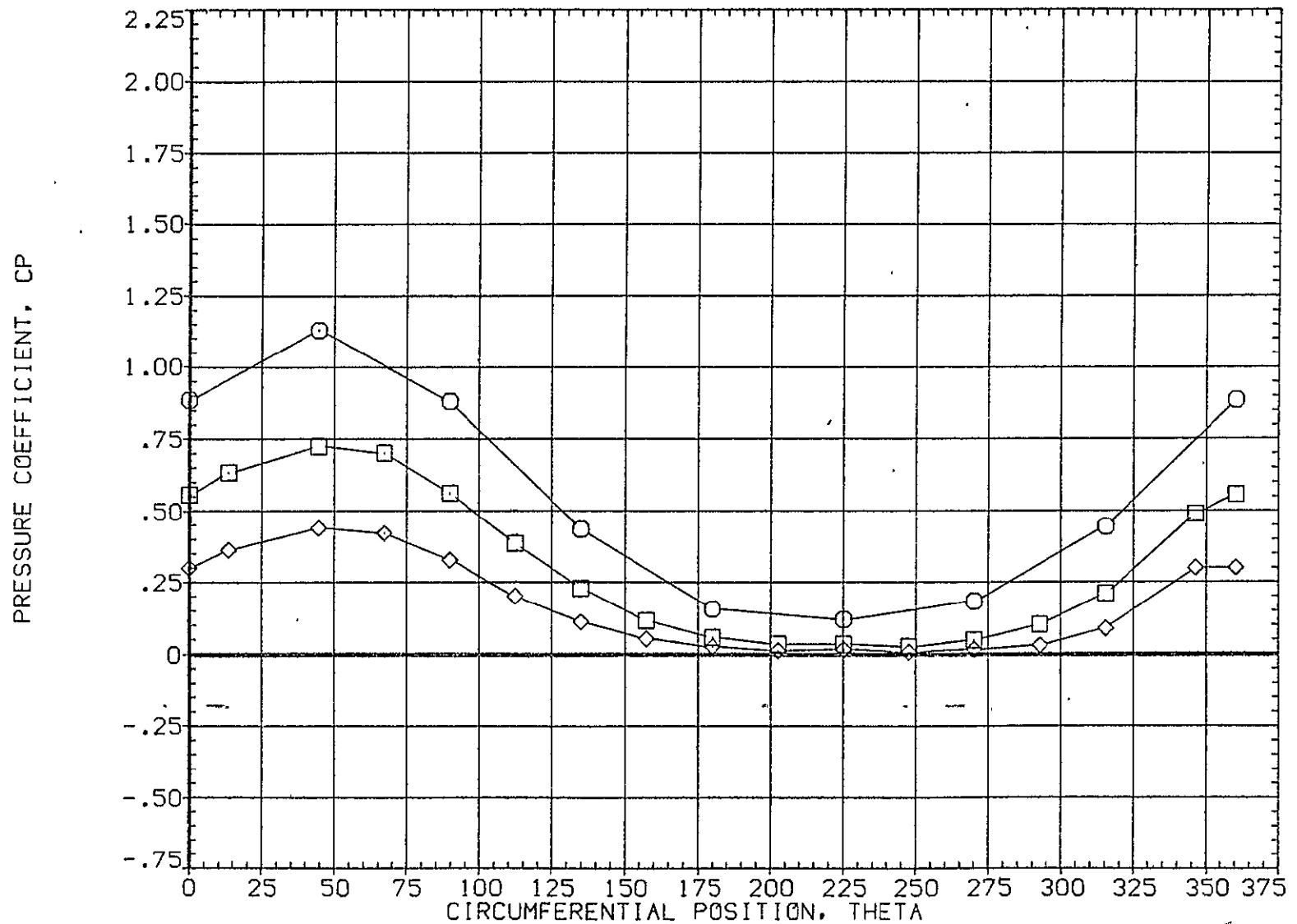


FIG. 5. CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

○
□
◇

X/LB

.216

ALPHA

20.490

MACH

4.960

BETA

PARAMETRIC VALUES

.000

OFFSET

20.000

MOUNT

1.000

PHI

225.000

PRESSURE COEFFICIENT, CP

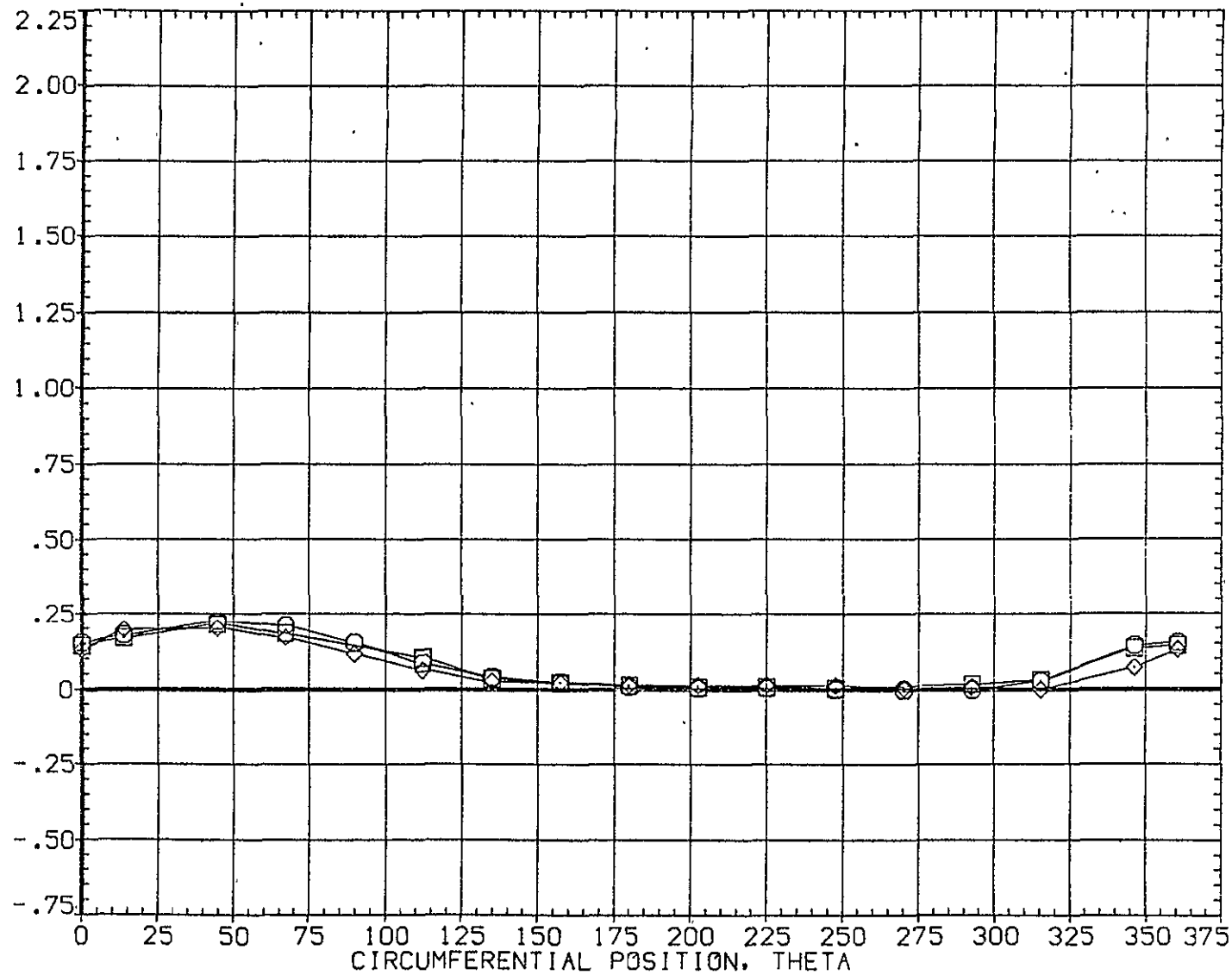


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A048)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
○	.610	20.490	4.960	BETA	.000	OFFSET	20.000
□	.735			MOUNT	1.000	PHI	225.000
◇	.860						

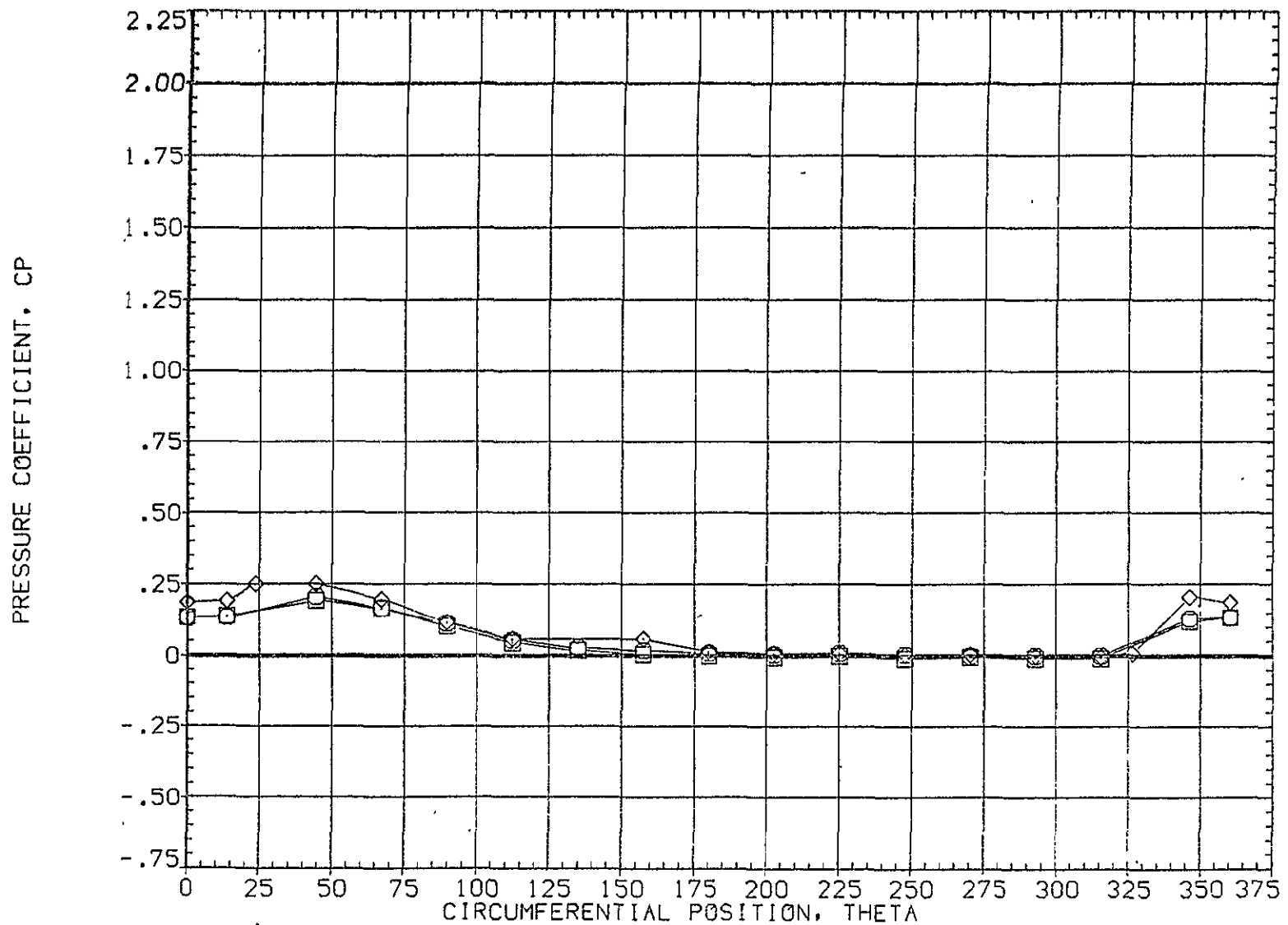


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/L8

ALPHA

MACH

PARAMETRIC VALUES

BETA
MOUNT.000 OFFSET
1.000 PHI20.000
225.000

PRESSURE COEFFICIENT, CP

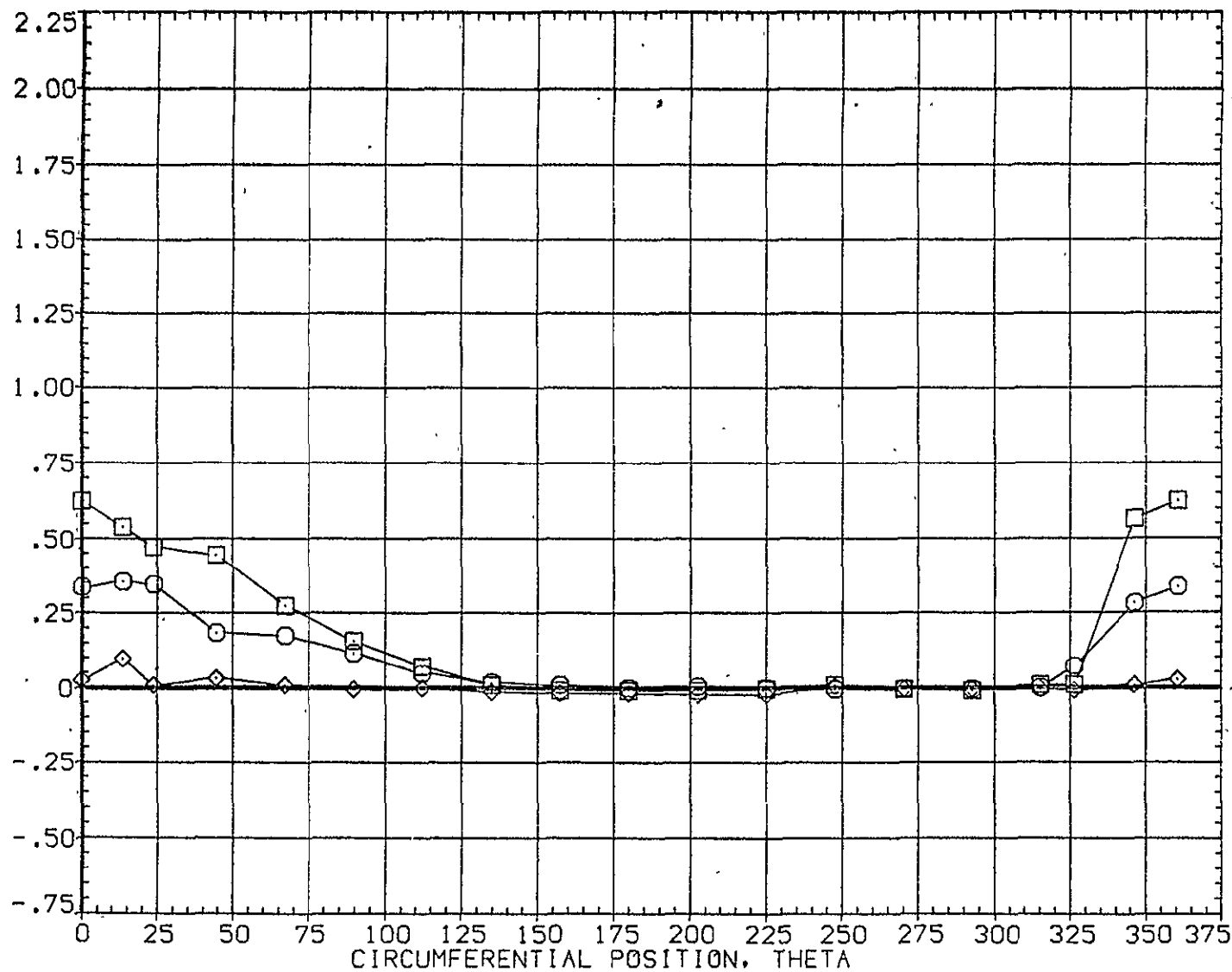


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A049)

SYMBOL	X/LB	ALPHA	MACH
○	.055	24.510	4.960
□	.108		
◇	.162		

PARAMETRIC VALUES		
BETA	.000	OFFSET -- 20.000
MOUNT	1.000	PHI 225.000

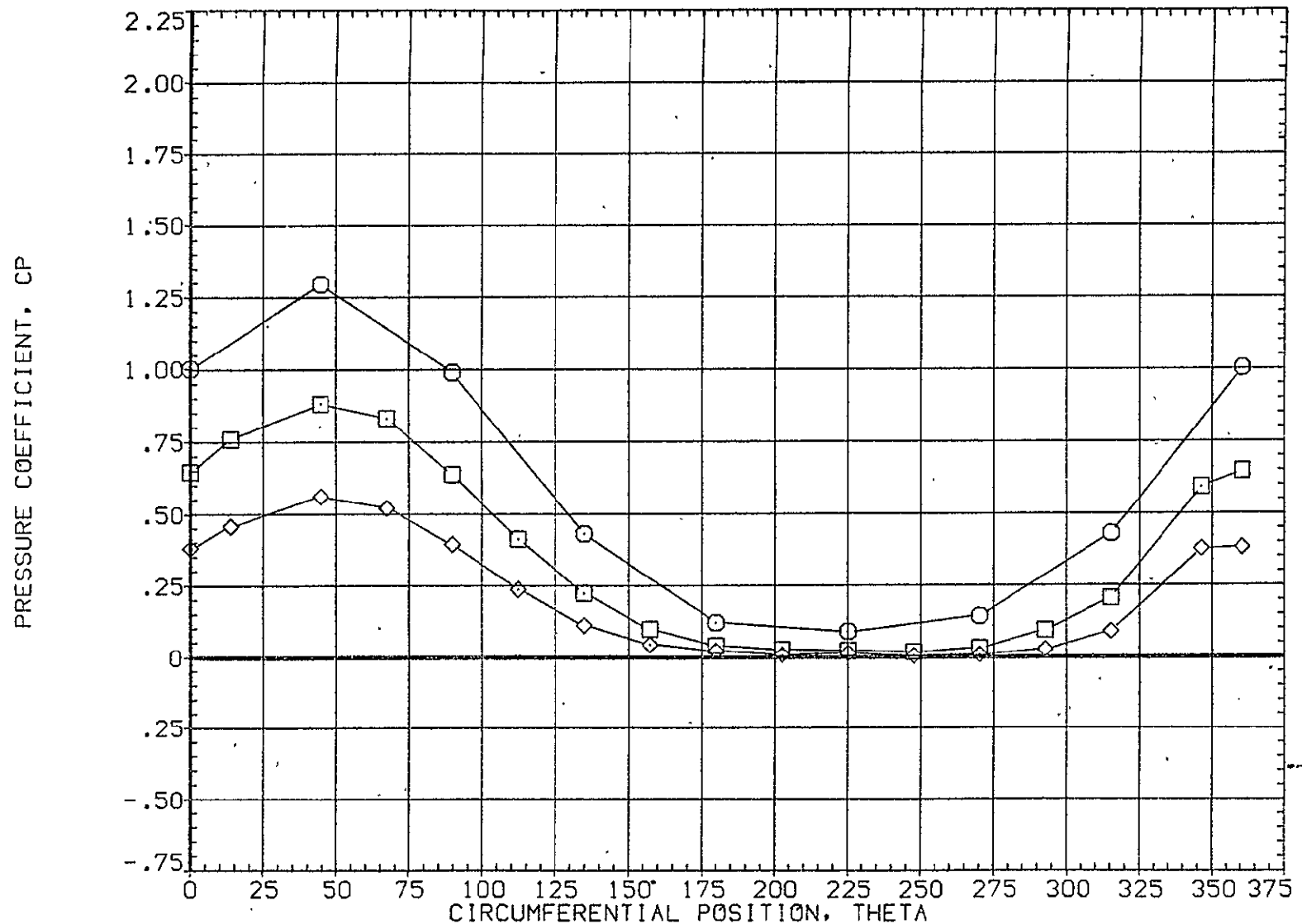


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

◇
□
○.216
.322
.518

24.510

4.960

BETA
MOUNT

PARAMETRIC VALUES

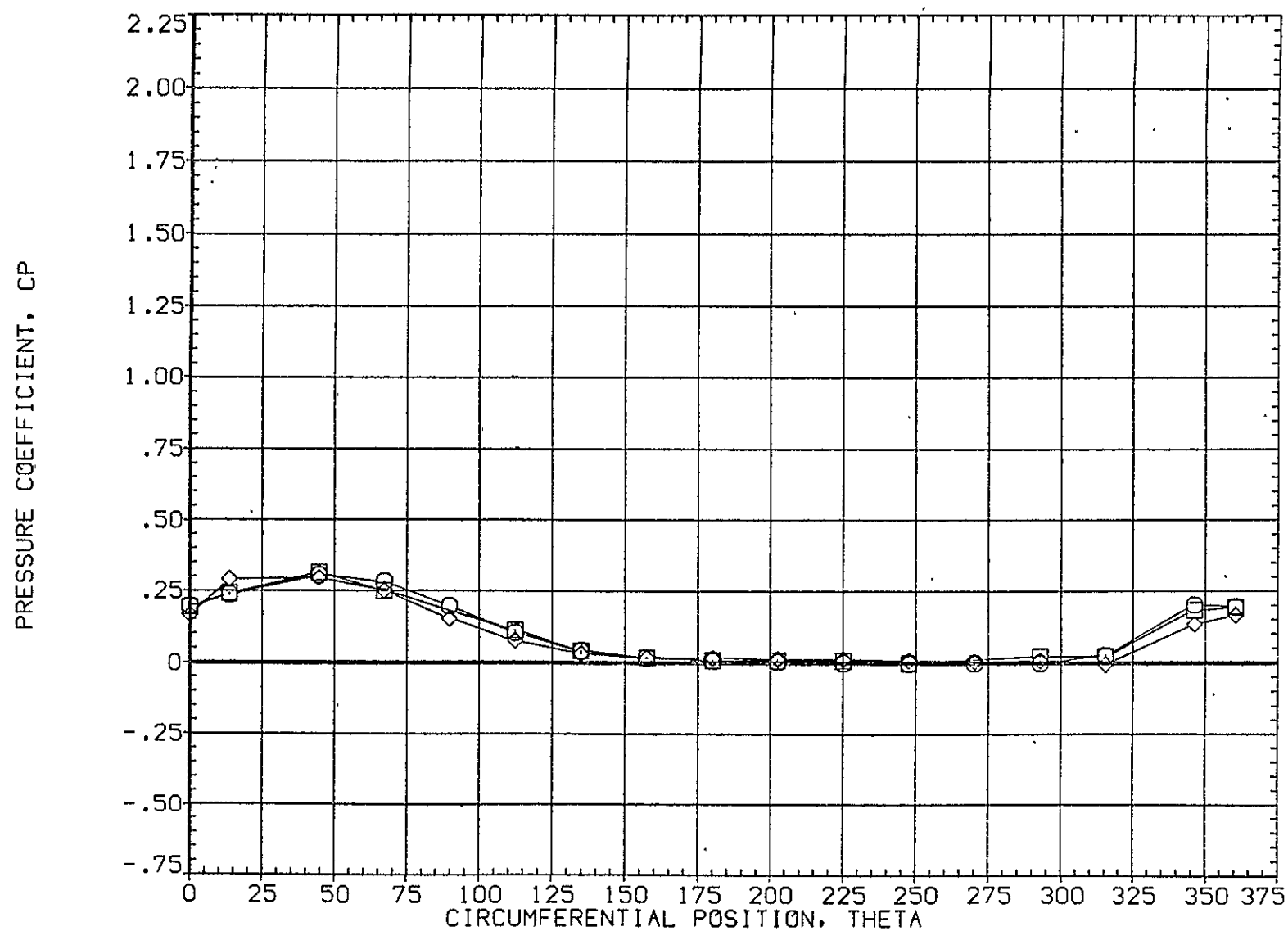
.000
1.000OFFSET
PHI20.000
225.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A049)

SYMBOL	X/LB	ALPHA	MACH
○	.610	24.510	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	225.000

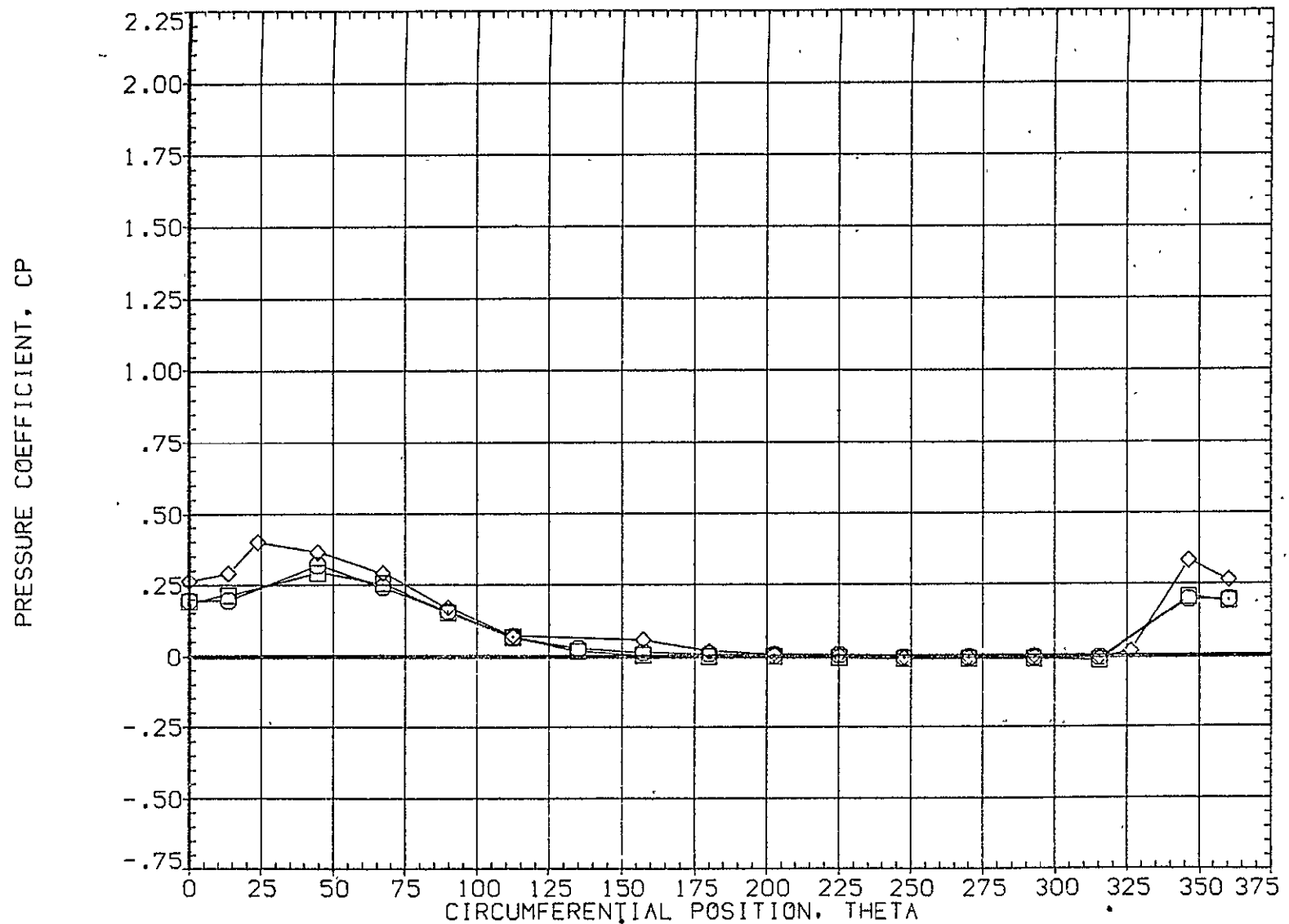


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	24.510	4.960			20.000
□	.923			MOUNT	1.000	PHI
◇	.954					225.000

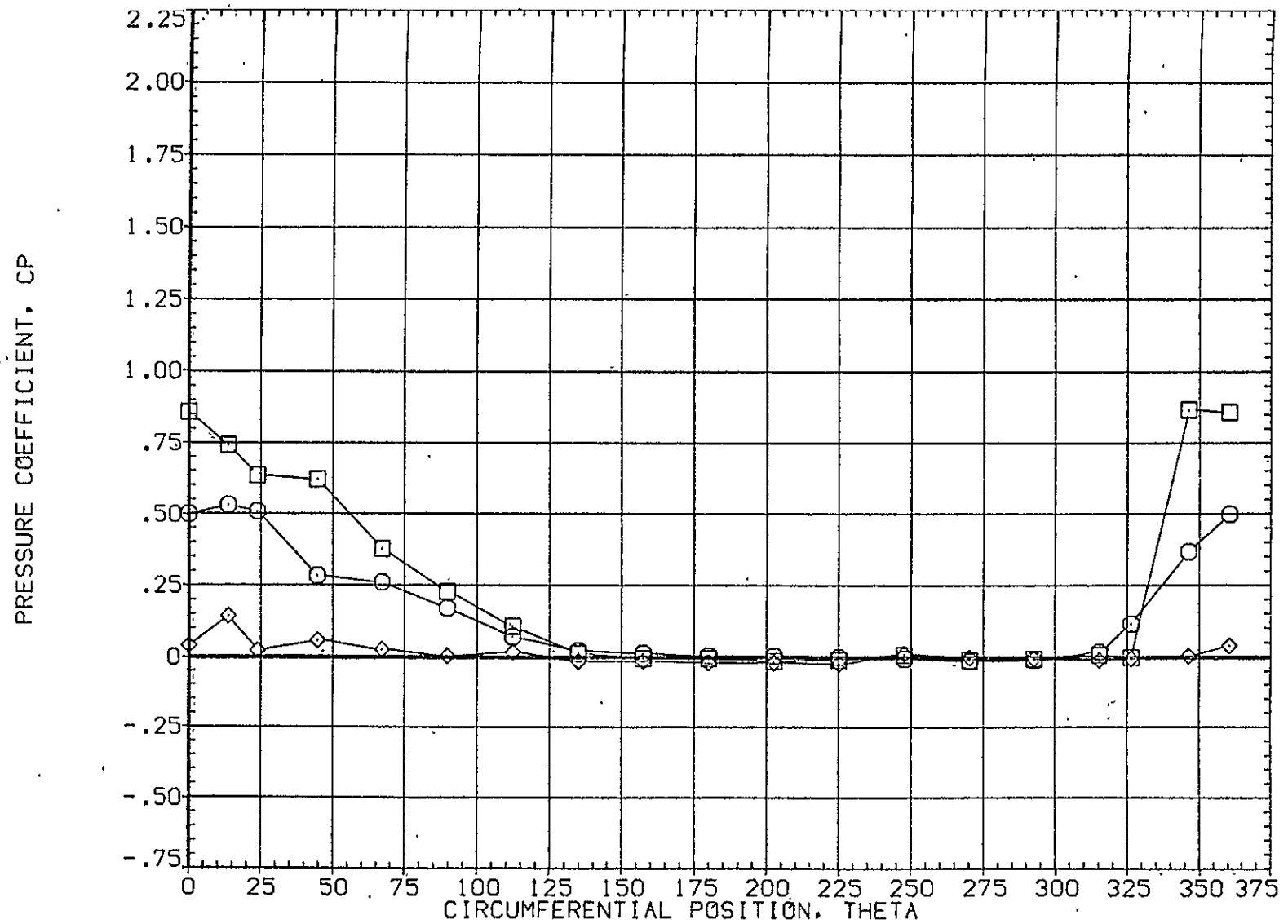


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A050)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
○	.055	28.540	4.960	MOUNT	1.000	PHI	225.000
□	.108						
◇	.162						

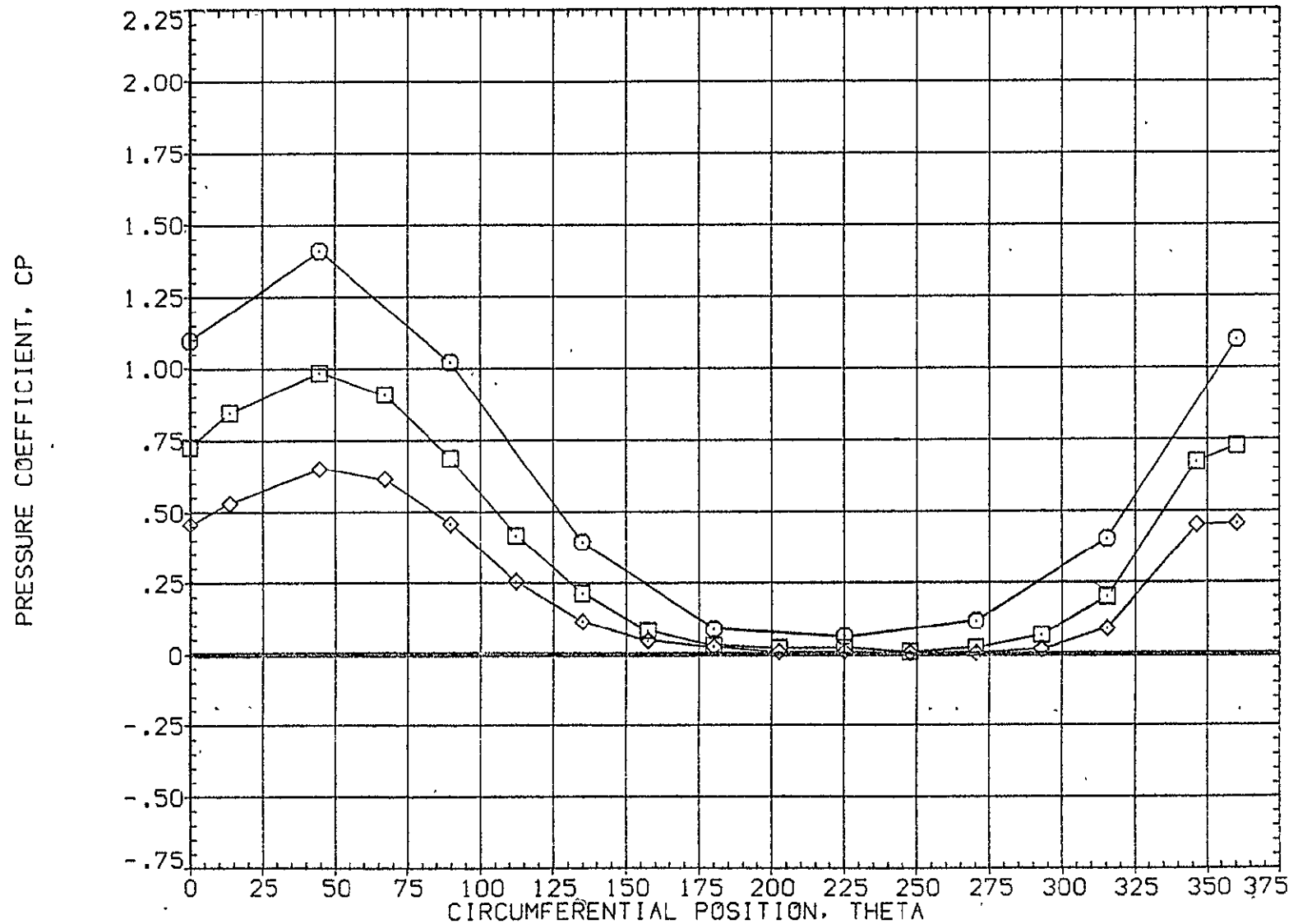


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.216	28.540	4.960			20.000
□	.322					225.000
◇	.518					

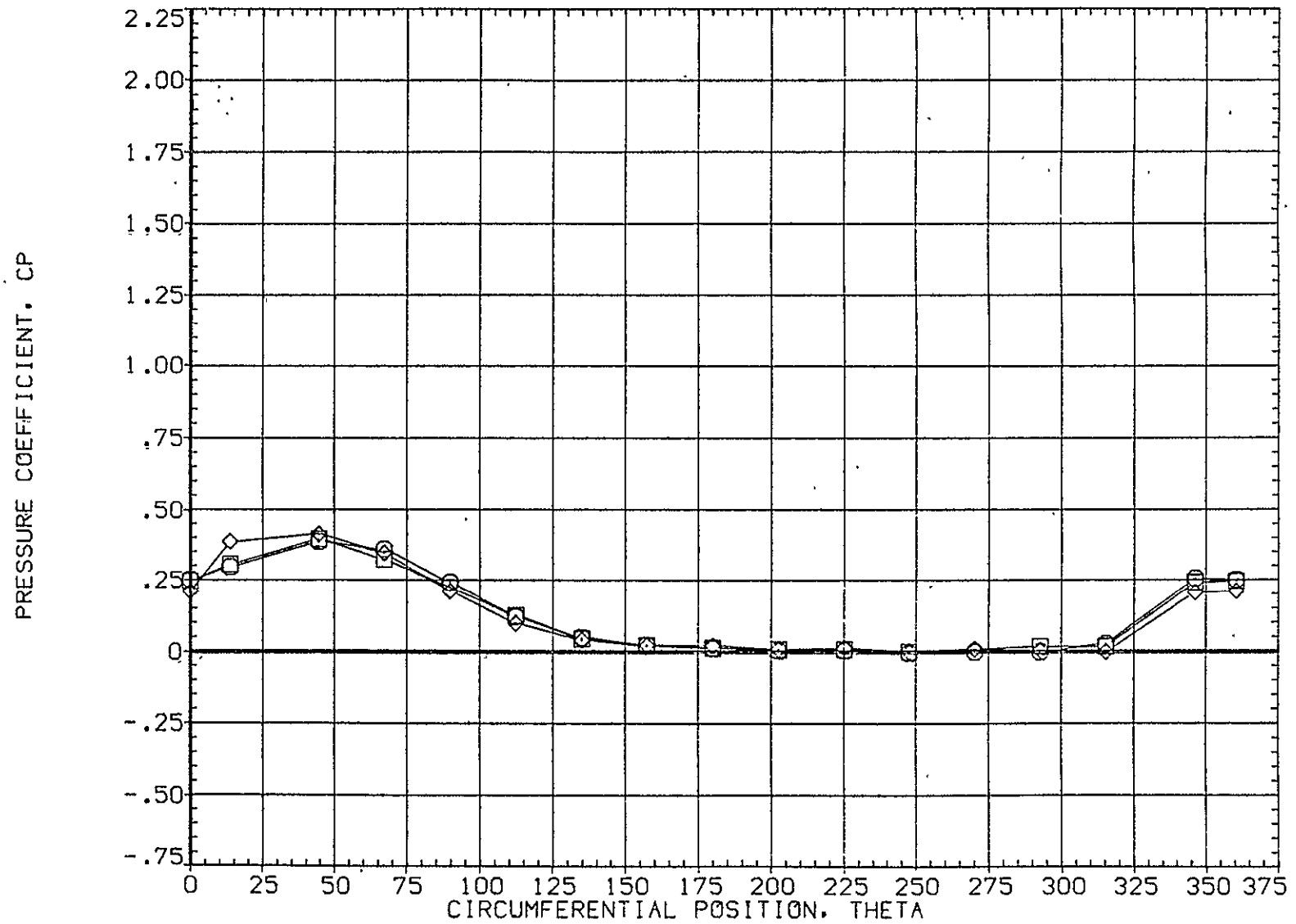


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A050)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	20.000
○	.610	28.540	4.960	MOUNT	1.000	PHI	225.000
□	.735						
◇	.860						

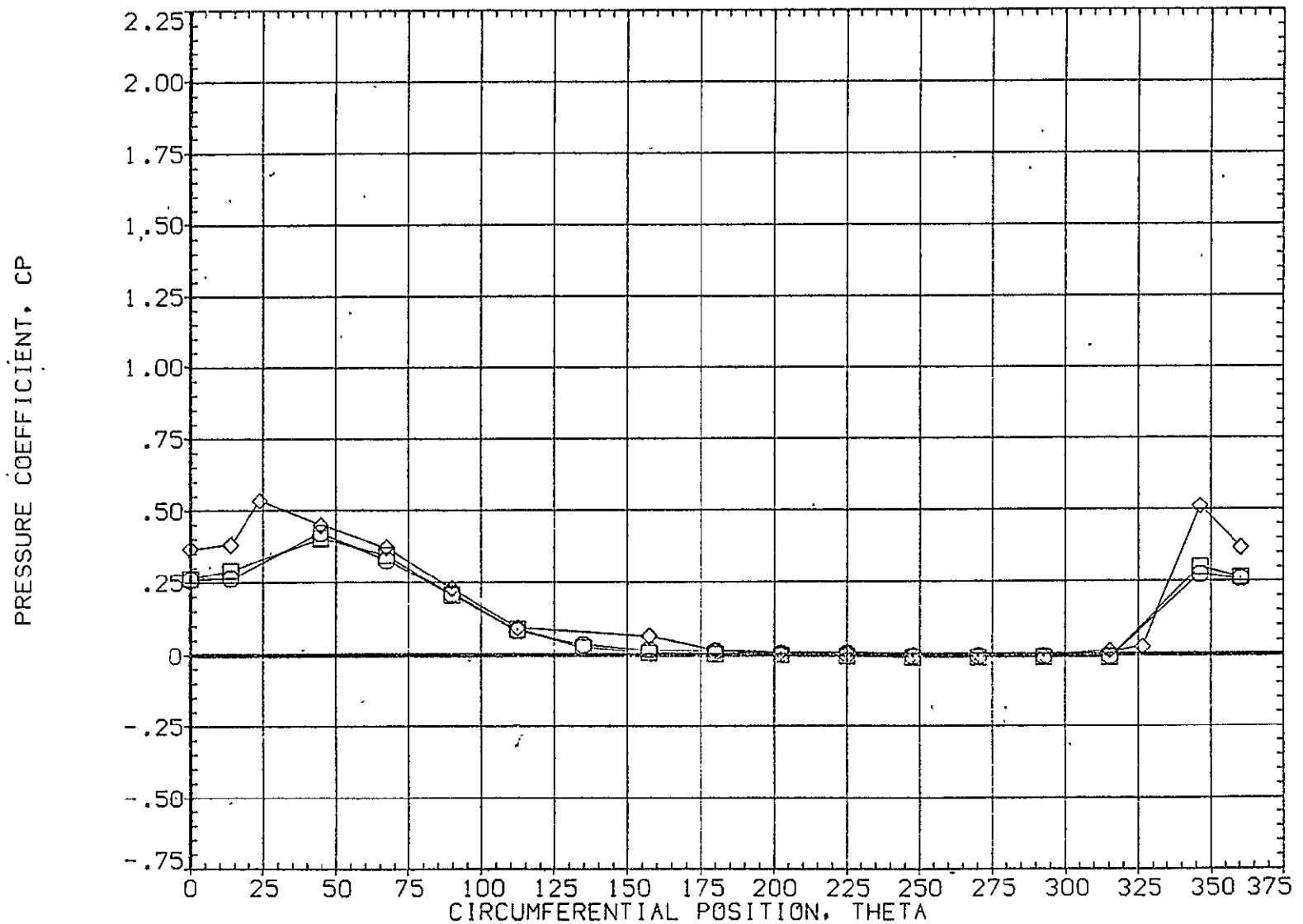


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	28.540	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	225.000

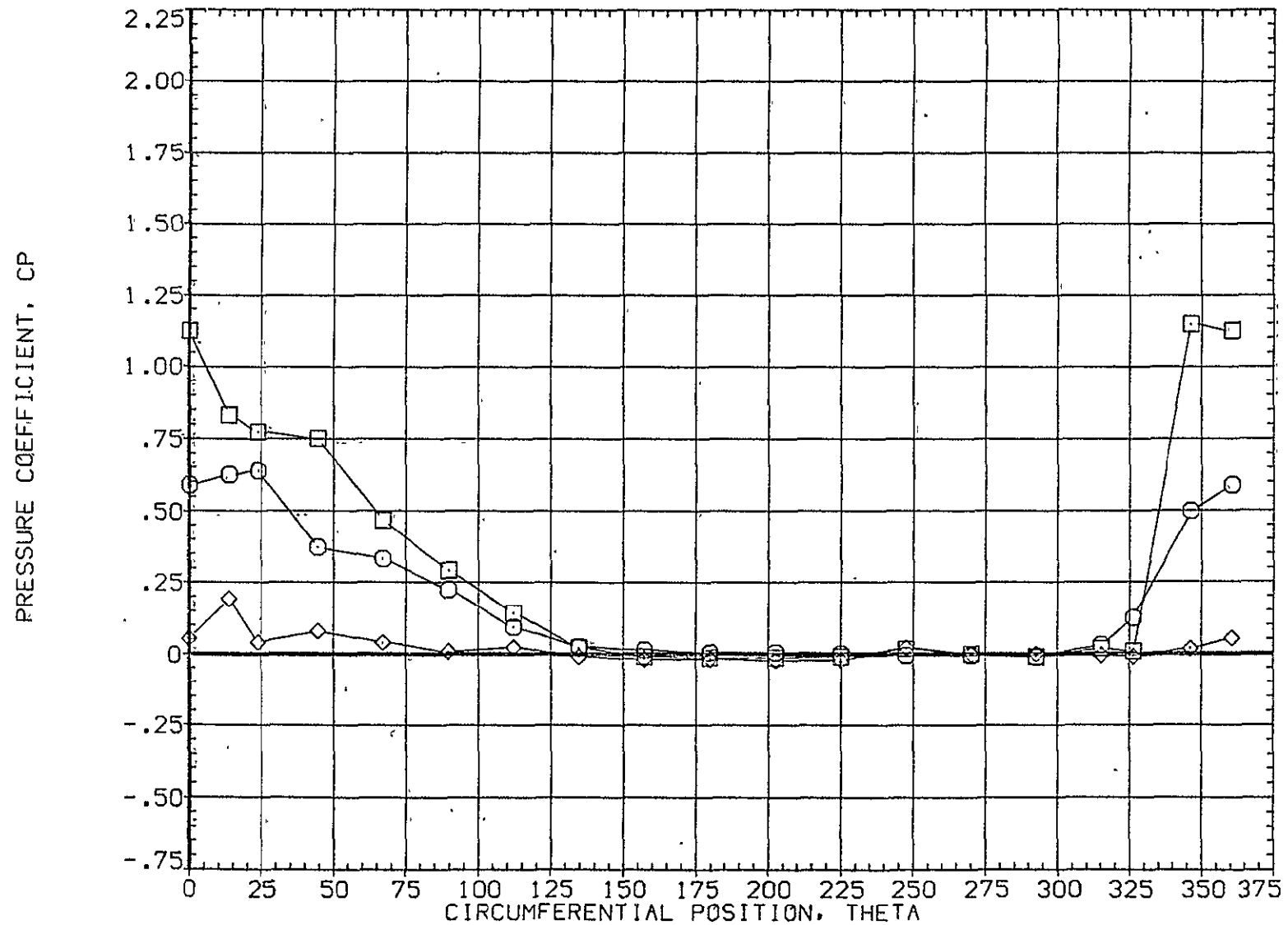


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1 (P1A051)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	-8.310	4.960	MOUNT	.000	OFFSET	.000
□	.108				1.000	PHI	270.000
◇	.162						

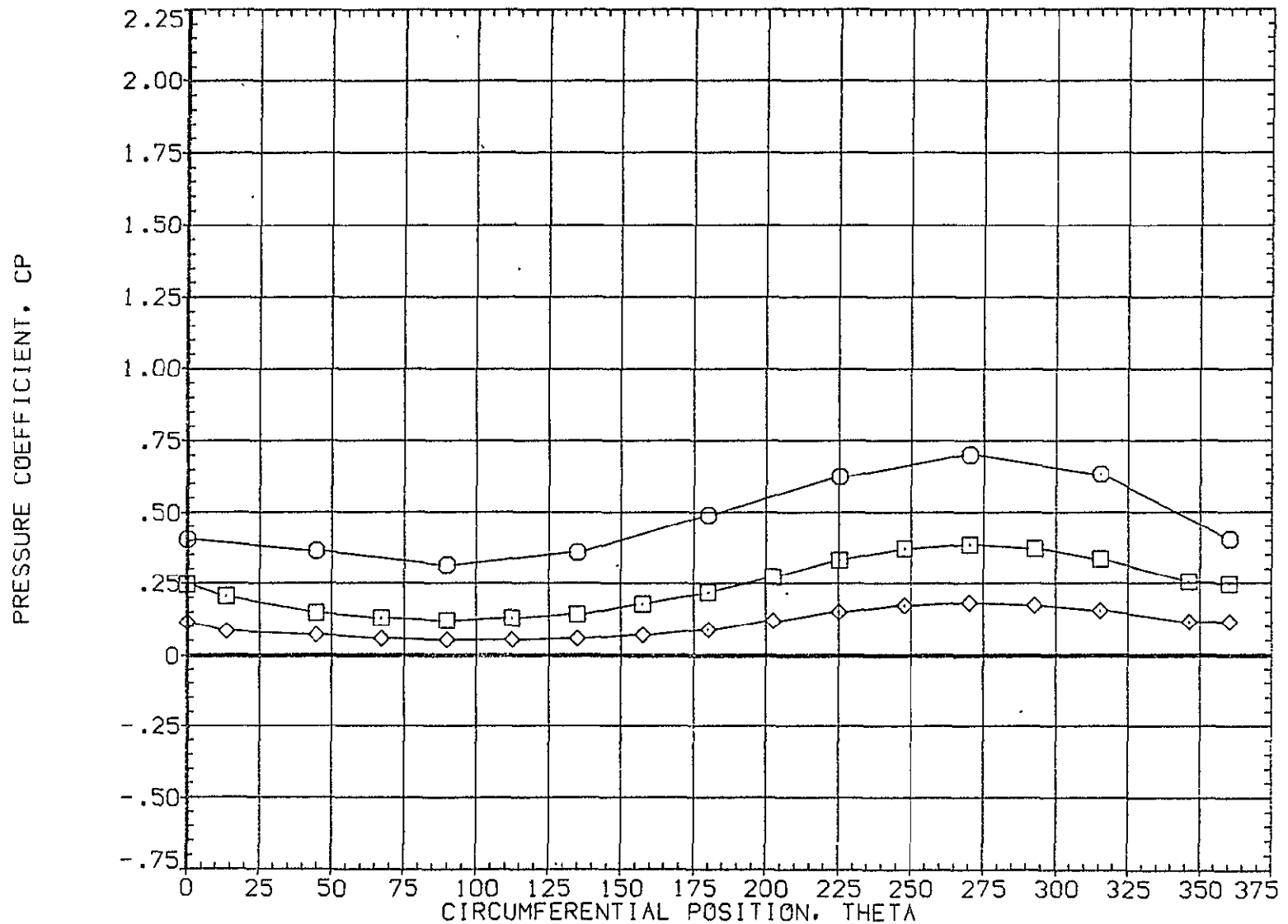


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-8.310	4.960	MOUNT	.000	PHI
□	.322				1.000	270.000
◇	.518					

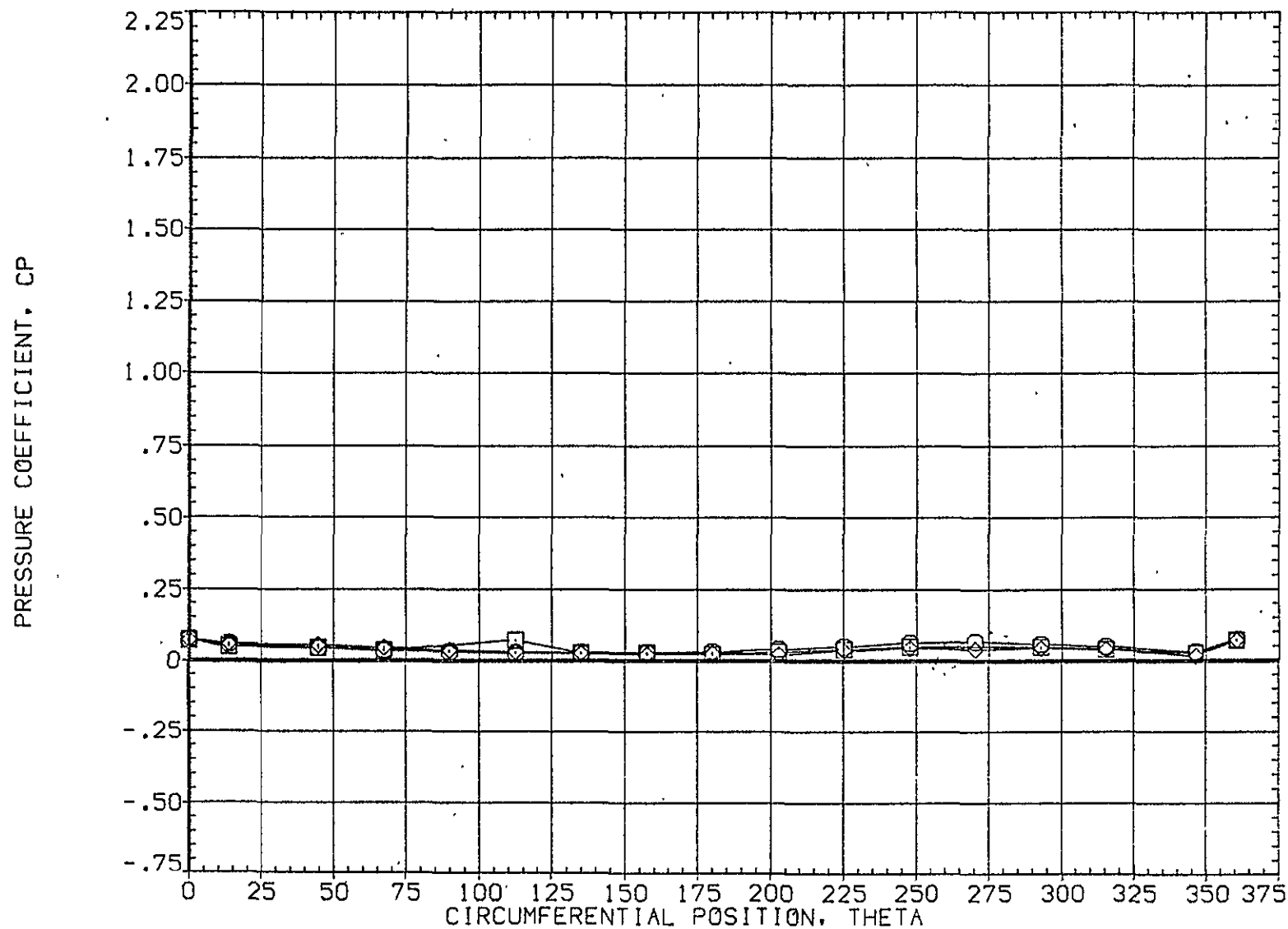


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A051)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	-8.310	4.960	MOUNT	.000	OFFSET	.000
□	.735				1.000	PHI	270.000
◇	.860						

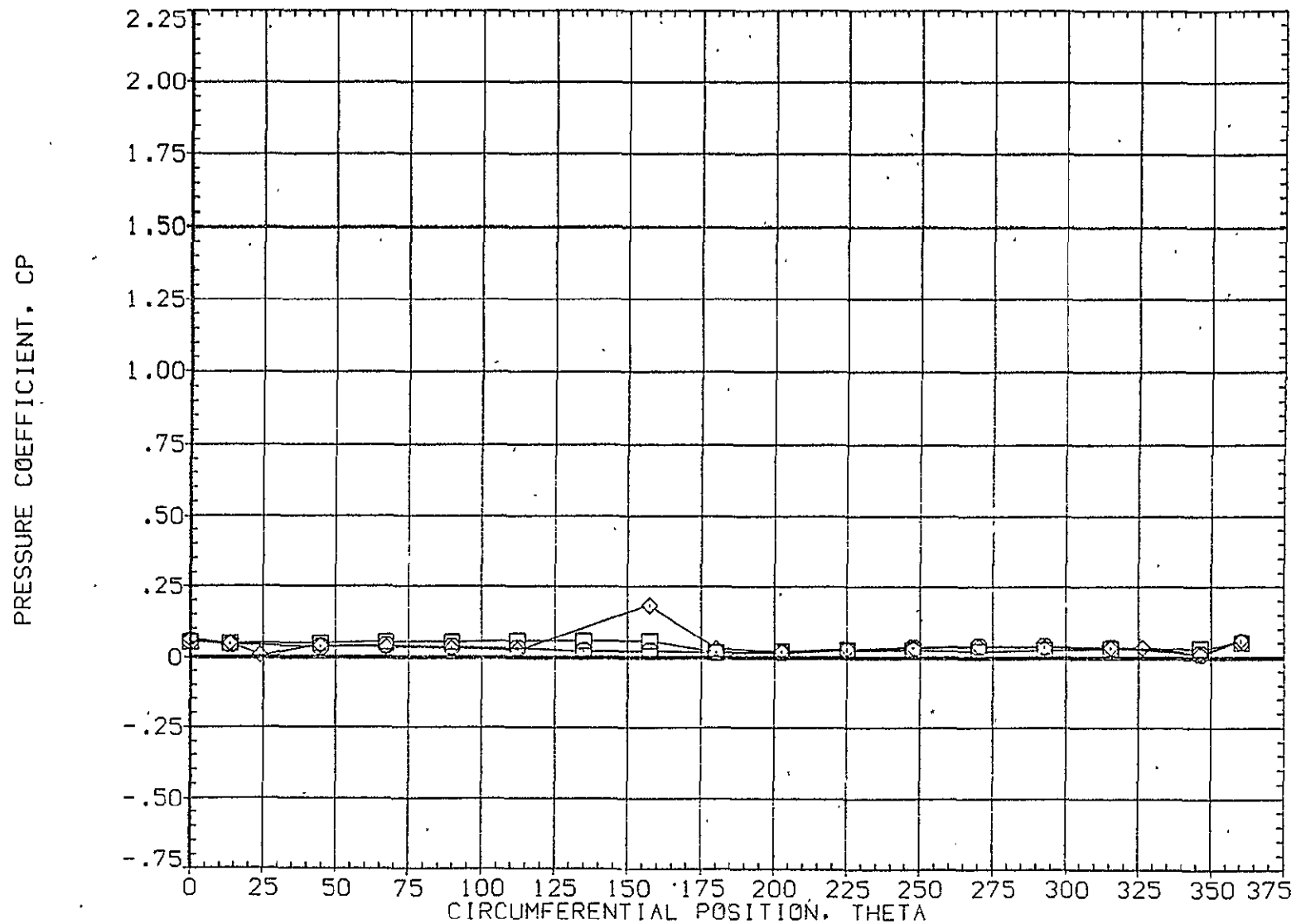


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	.000	OFFSET	.000
				MOUNT	1.000	PHI	270.000
○	.892	-8.310	4.960				
□	.923						
◇	.954						

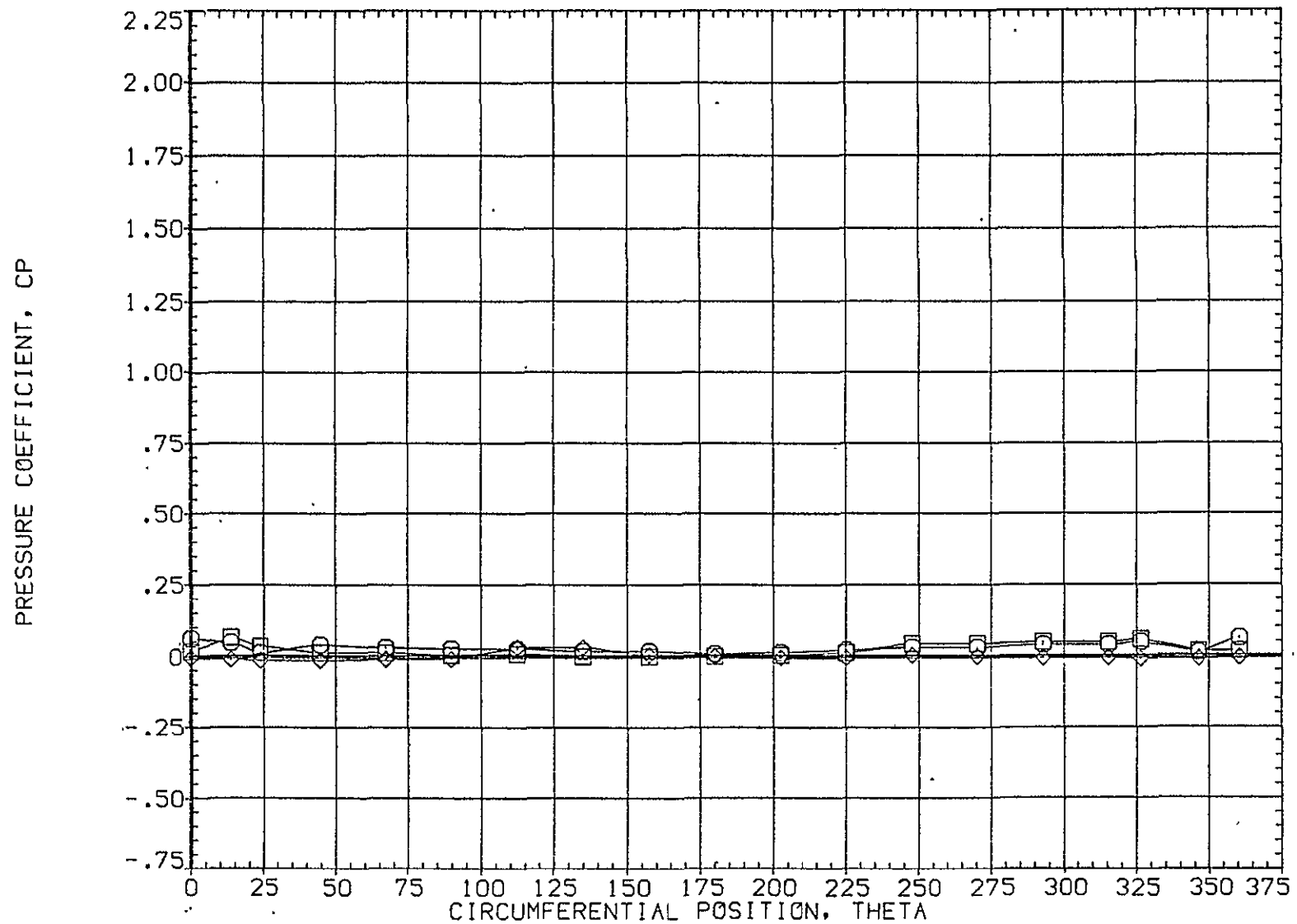


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A052)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	-4.290	4.960	MOUNT	1.000	PHI	270.000
□	.108						
◇	.162						

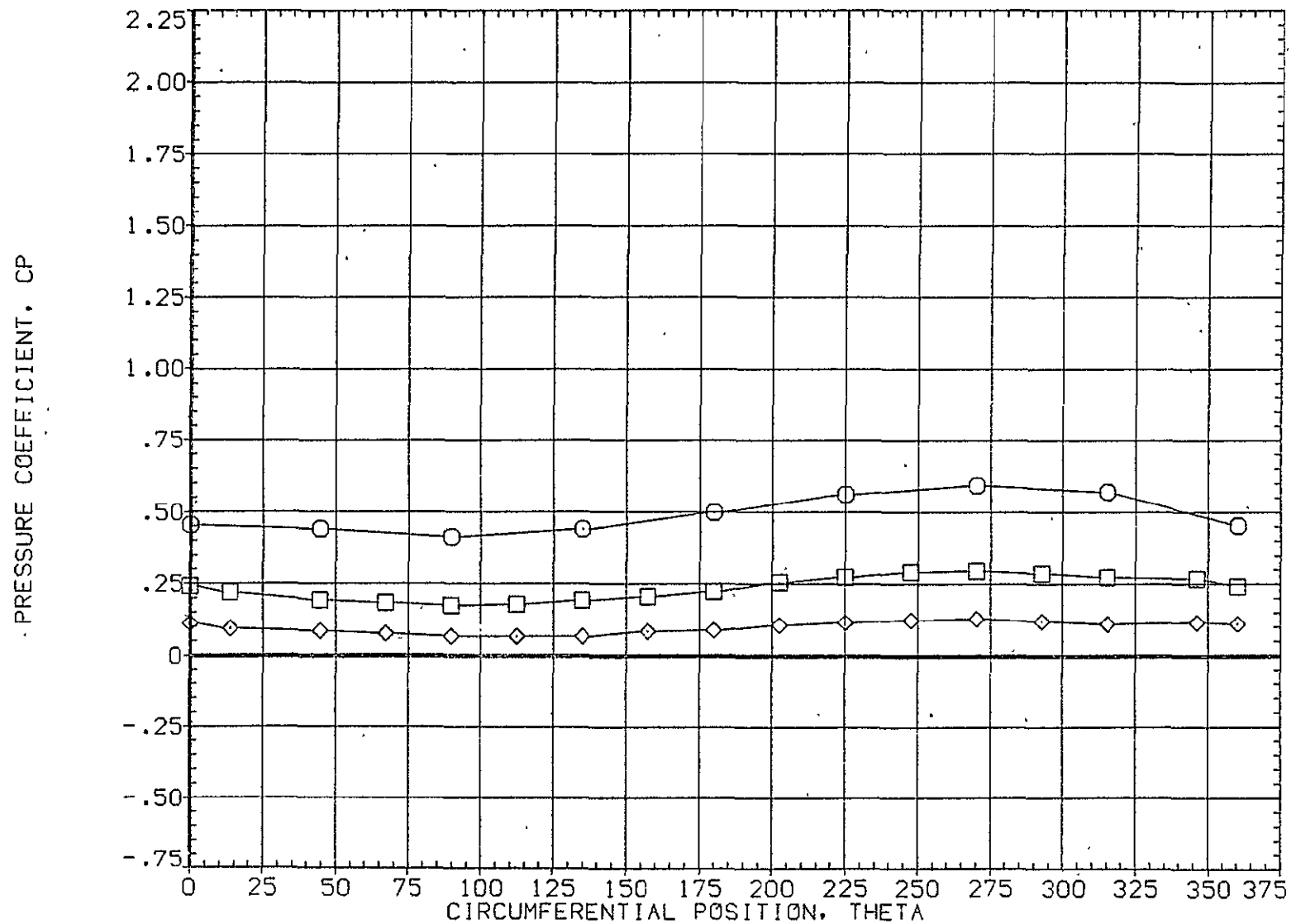


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-4.290	4.960	.000	.000	.000
□	.322			1.000	PHI	270.000
◇	.518					

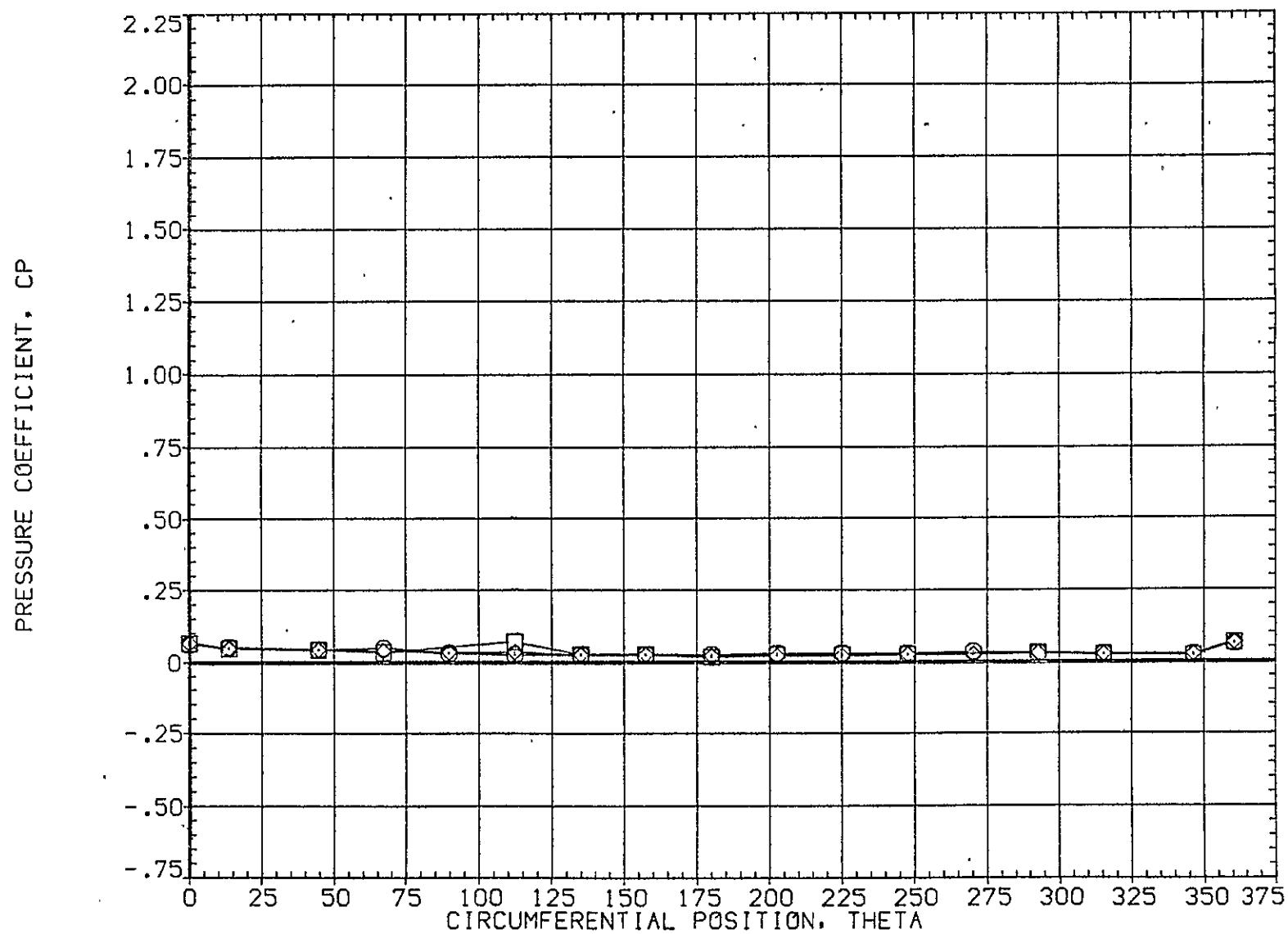


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A052)

SYMBOL	X/LB	ALPHA	MACH
○	.610	-4.290	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES		
BETA	OFFSET	.000
MOUNT	PHI	270.000

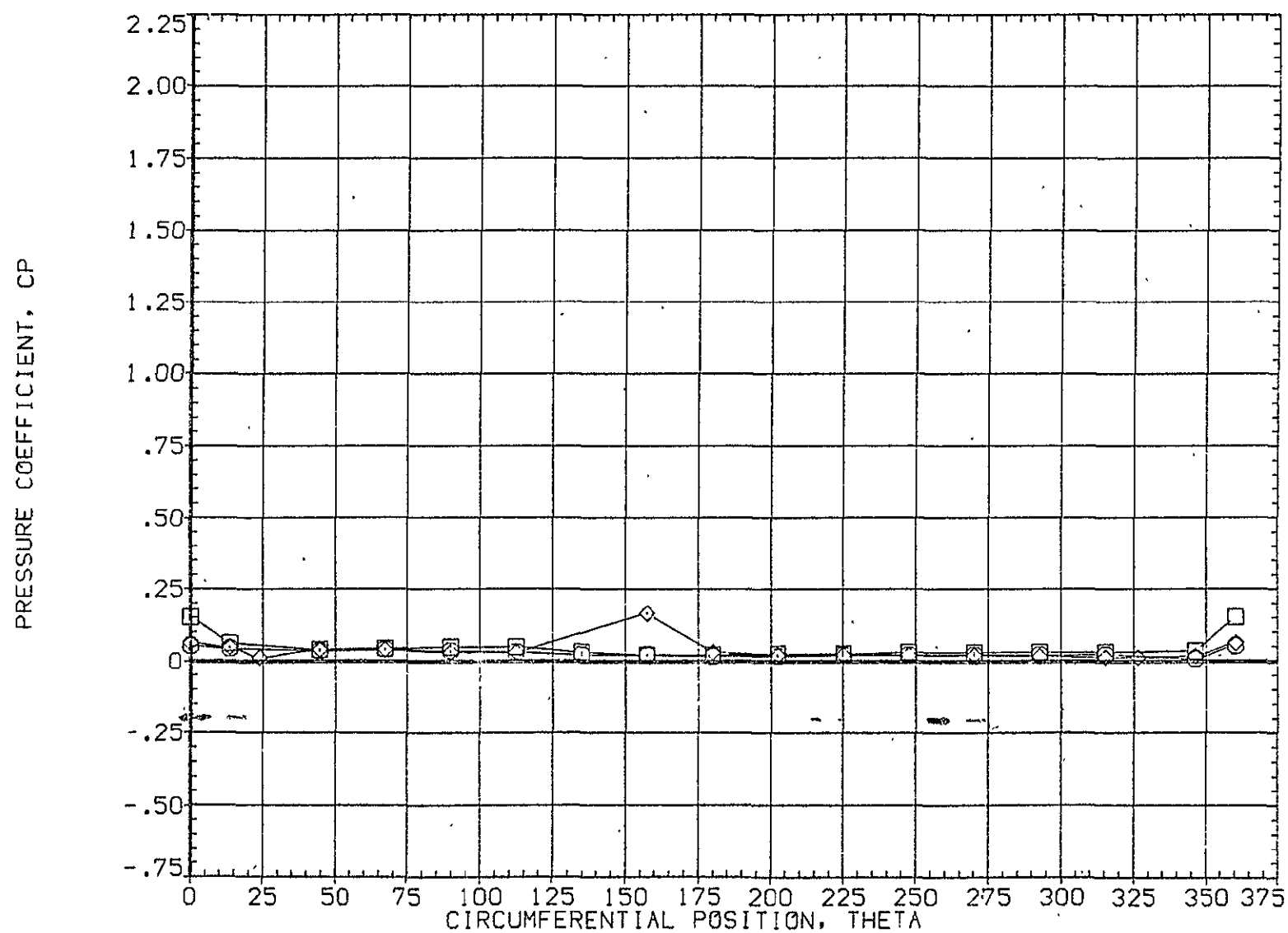


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

○
□
◇.892
.923
.954

-4.290°

4.960

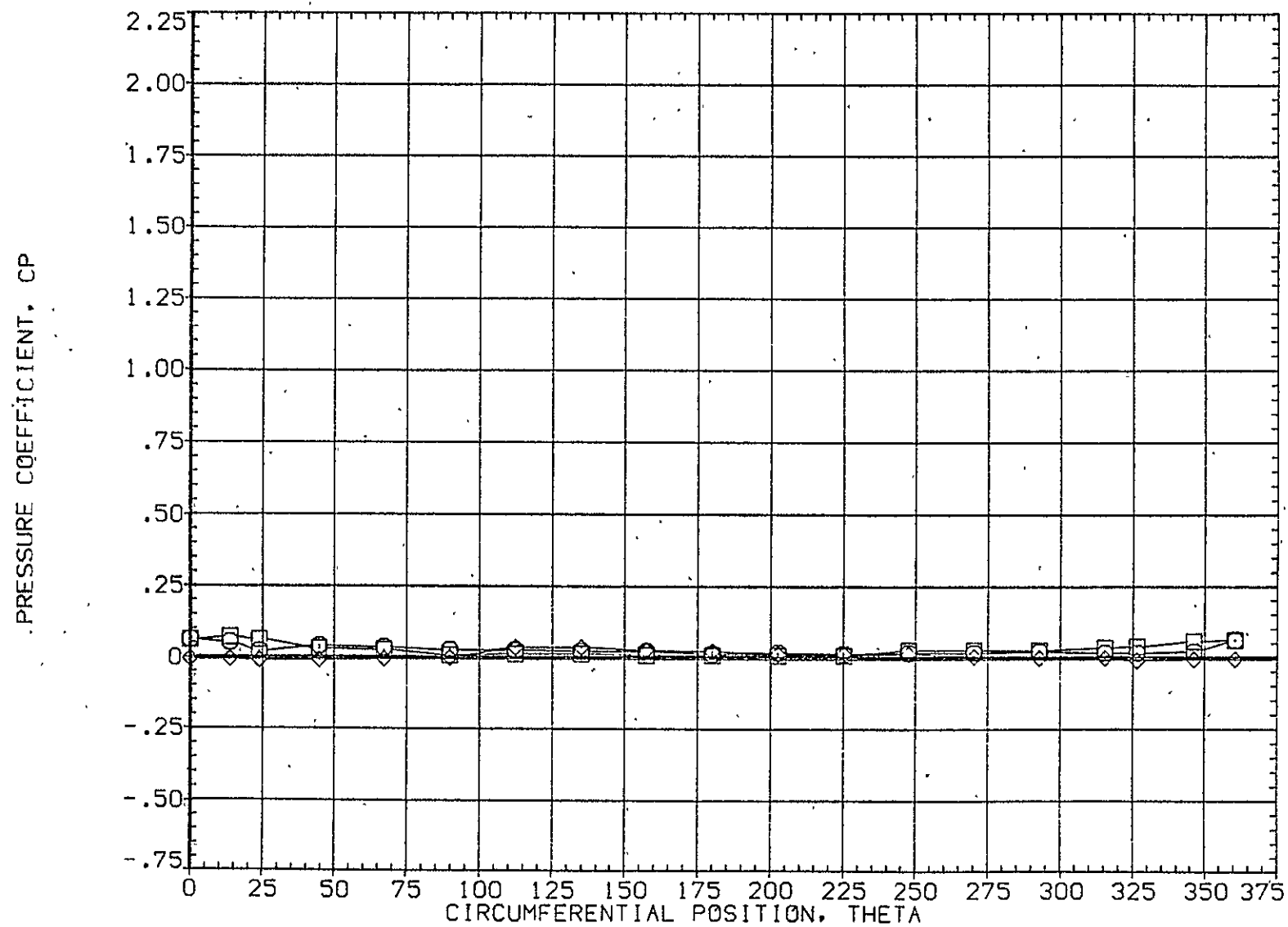
BETA
MOUNT.000
1.000OFFSET
PHI.000
270.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A053)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	-.280	4.960	.000			.000
□	.109			1.000			270.000
◇	.162						

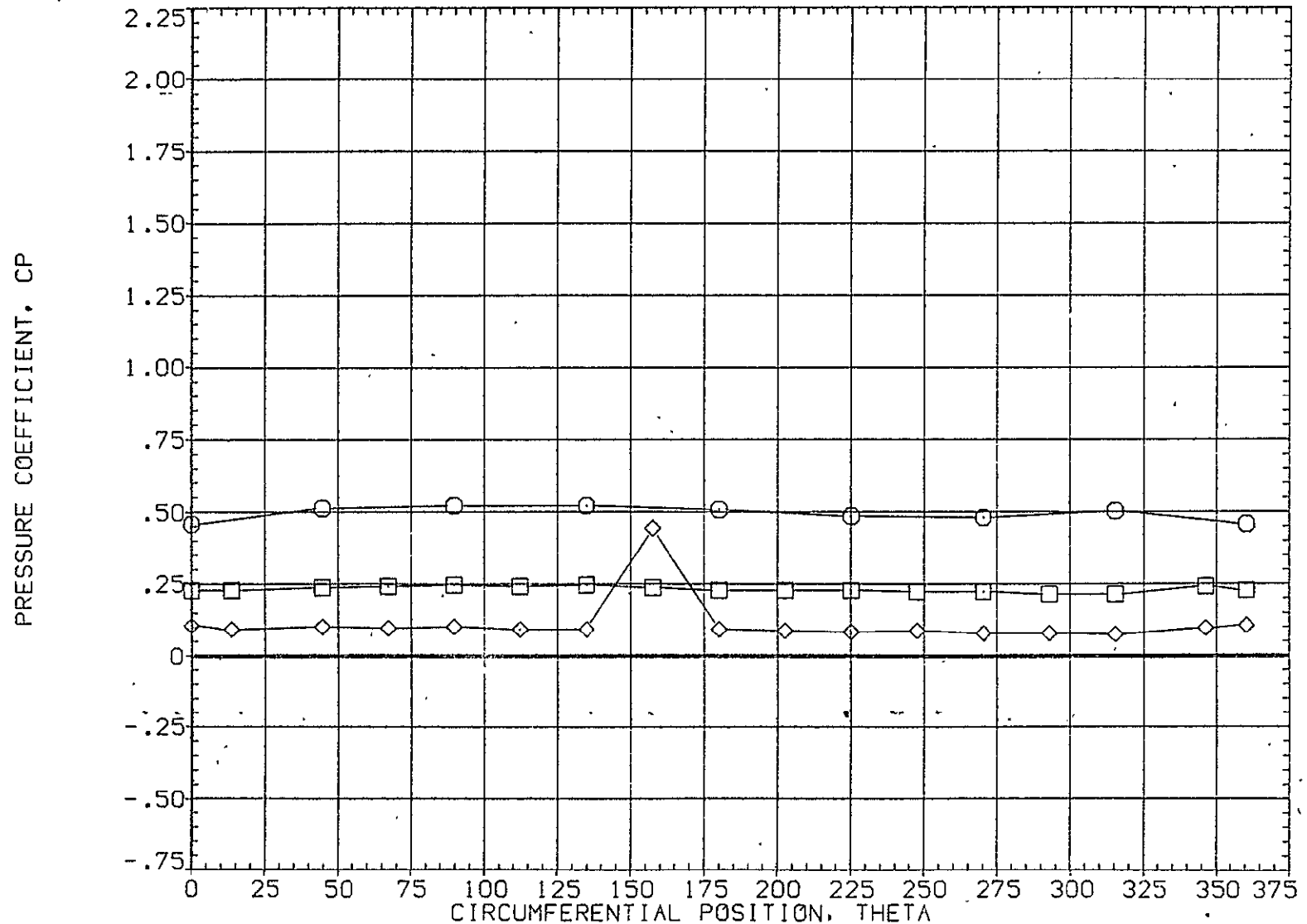


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-.280	4.960	.000	.000	
□	.322			1.000	PHI	270.000
◇	.518					

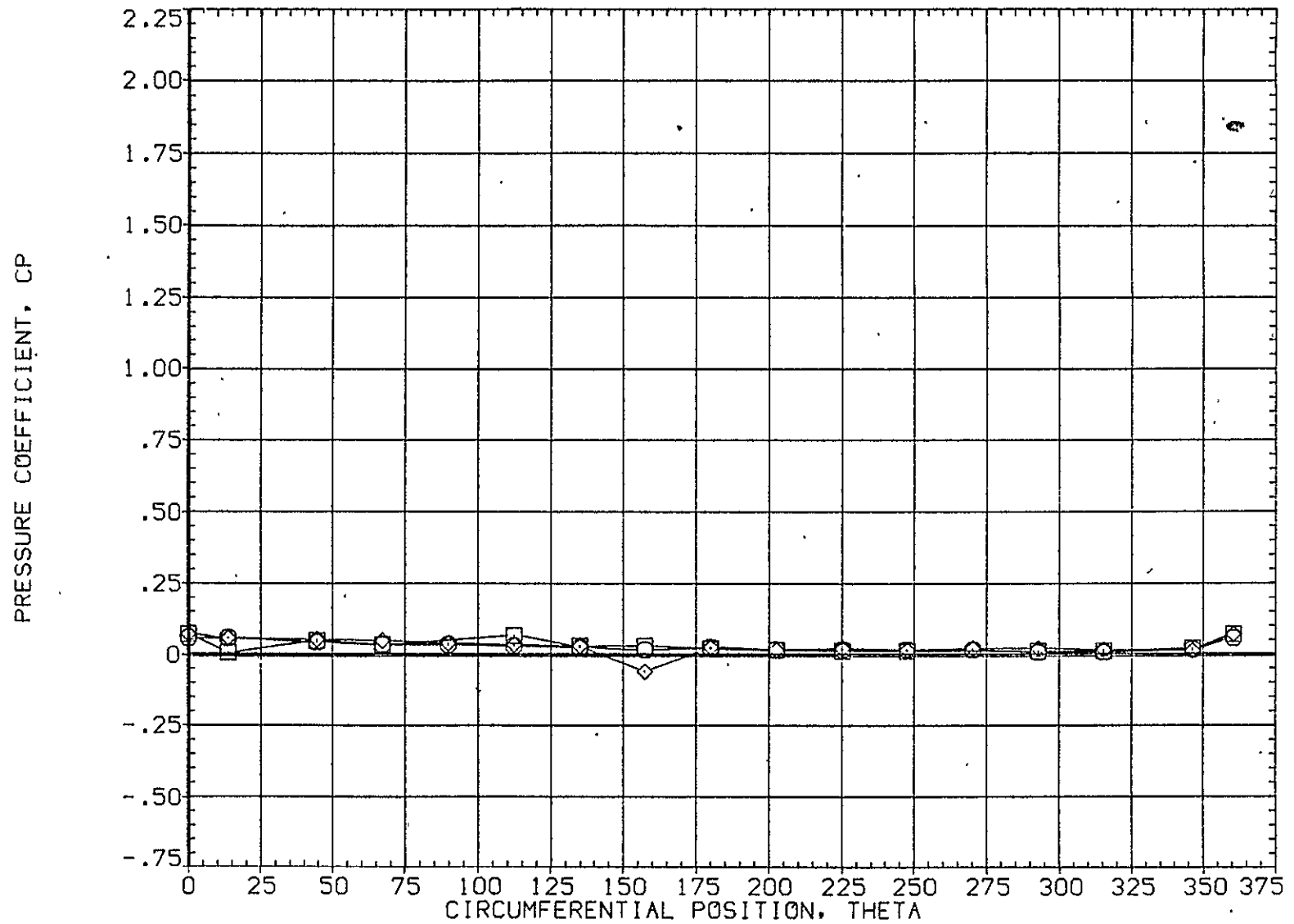


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES.

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A053)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.610	-.280	4.960	MOUNT	1.000	PHI	270.000
□	.735						
◇	.860						

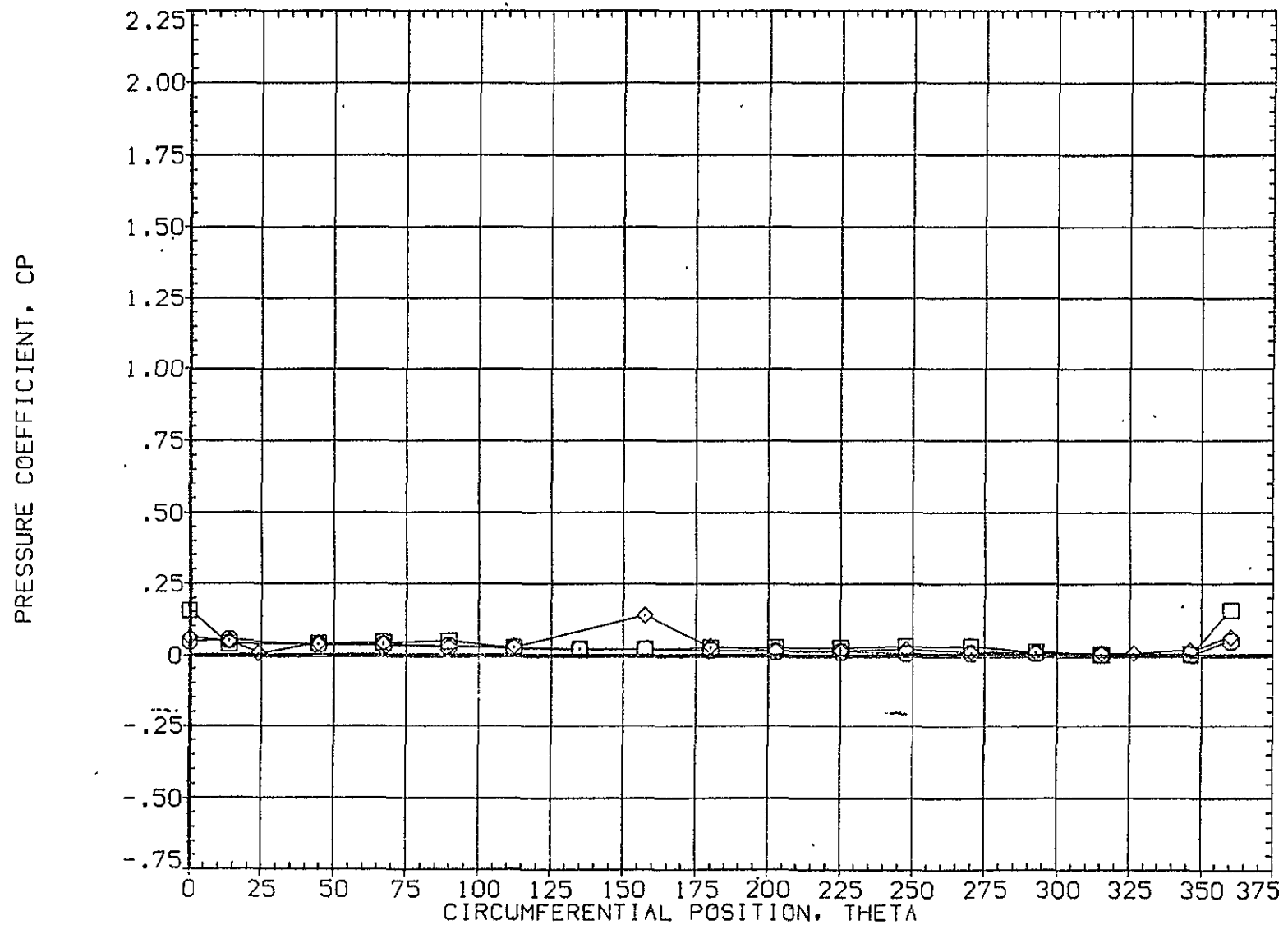


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-.280	4.960	.000		.000
□	.923			1.000	PHI	270.000
◇	.954					

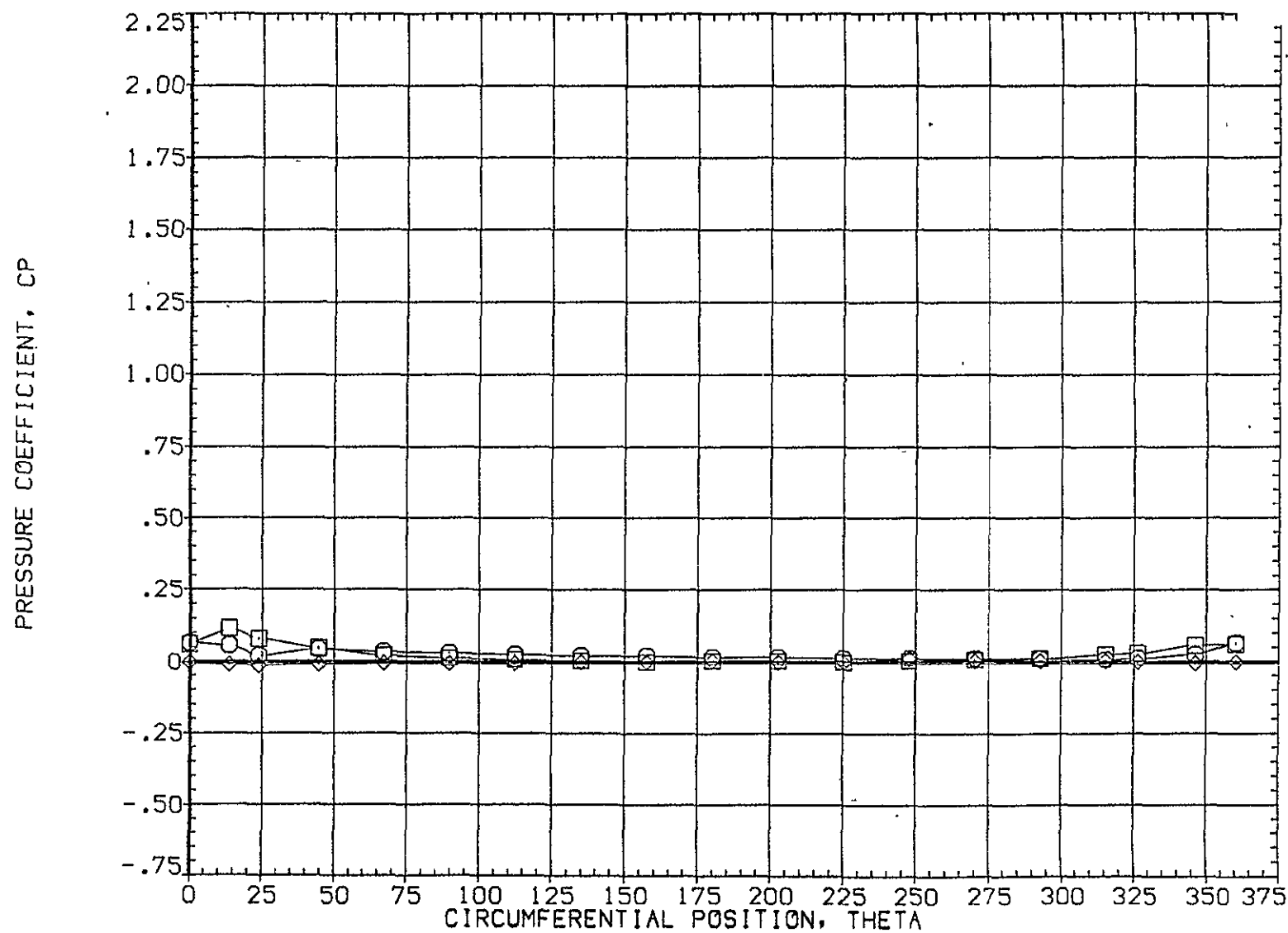


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A054)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	.000	
○	.055	3.750	4.960	MOUNT	1.000	PHI	270.000
□	.108						
◇	.162						

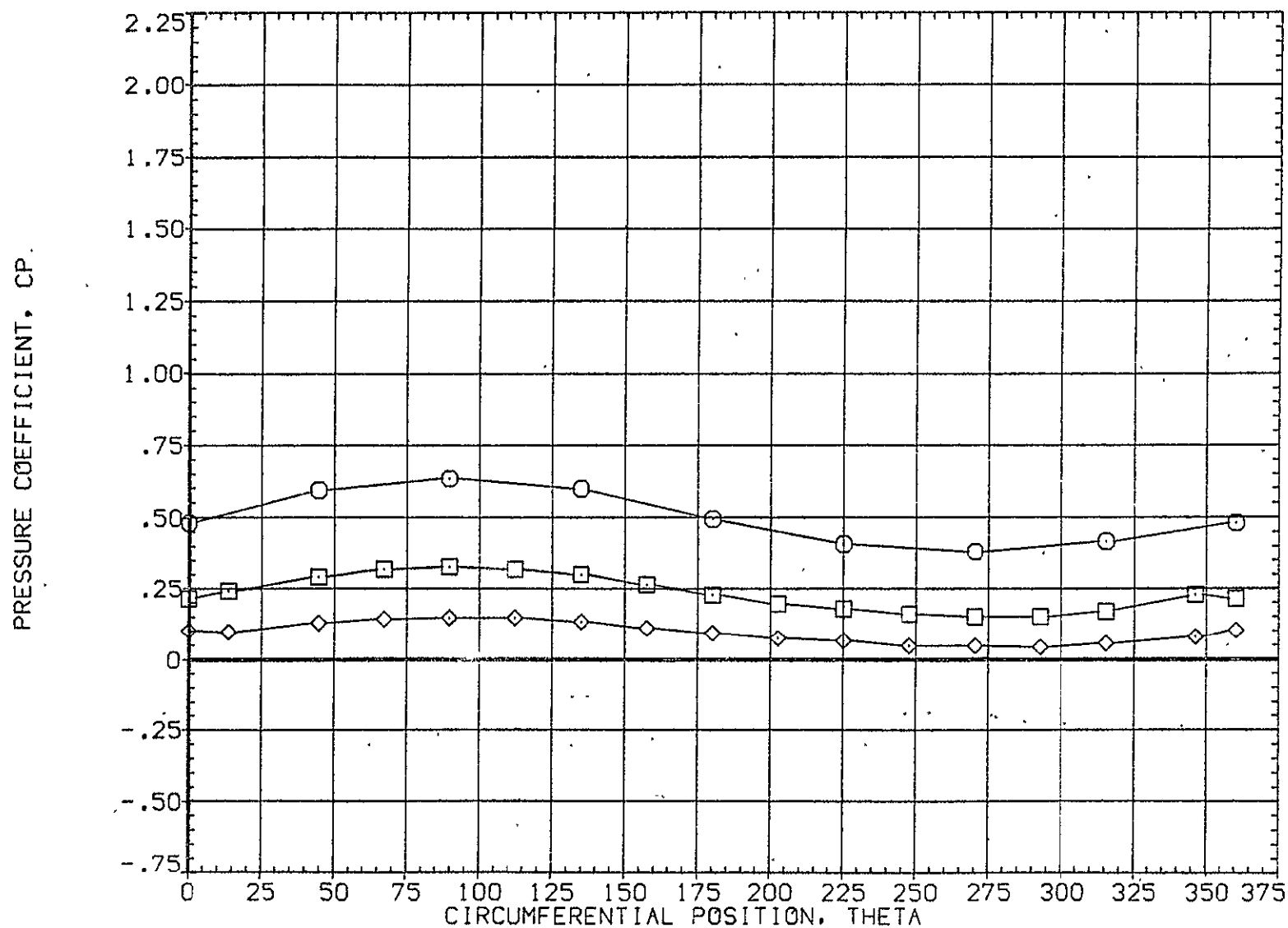


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.216	3.750	4.960	.000	.000	.000	.000
□	.322			1.000	1.000	270.000	
◇	.518						

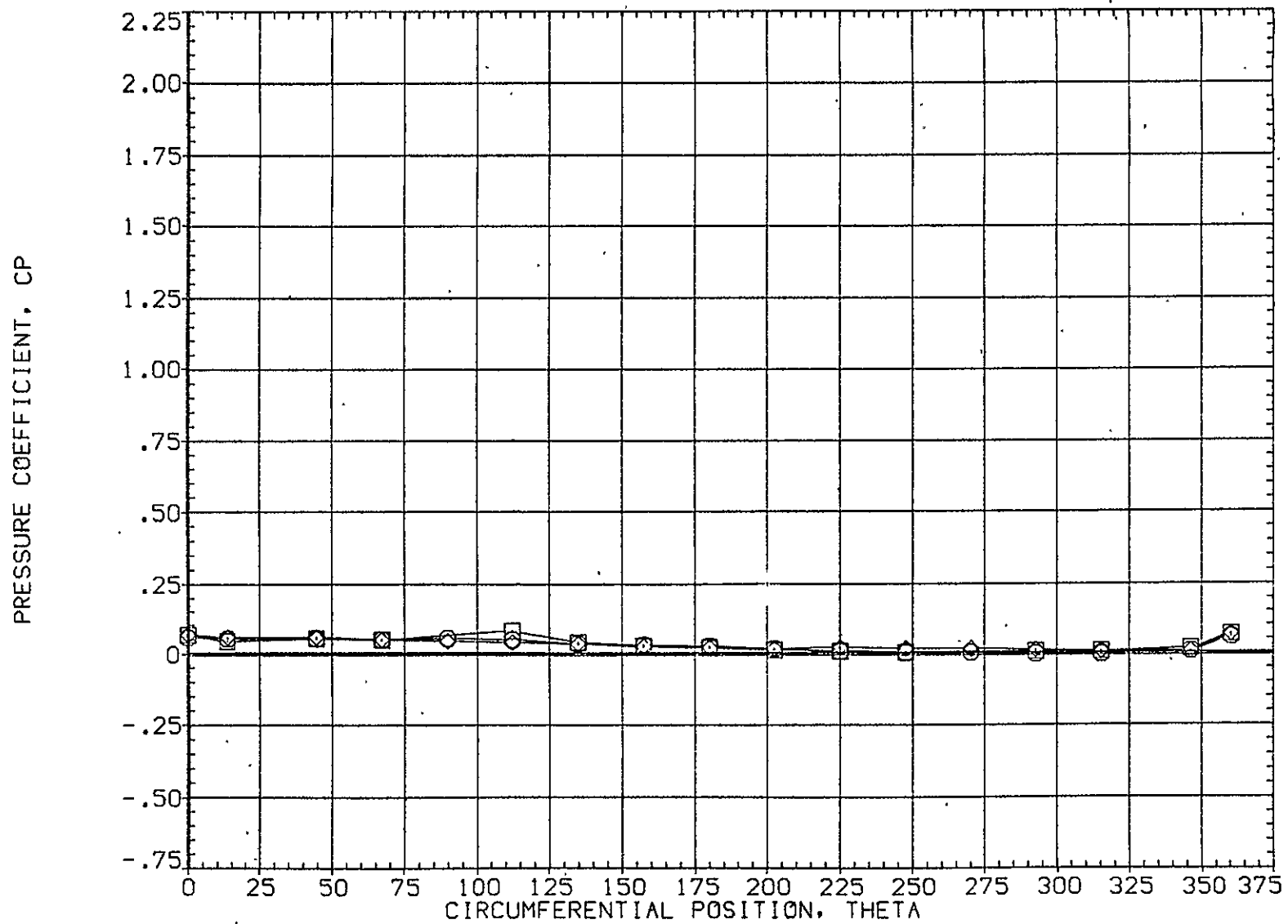


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A054)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.610	3.750	4.960	MOUNT	.000	PHI	270.000
□	.735				1.000		
◇	.860						

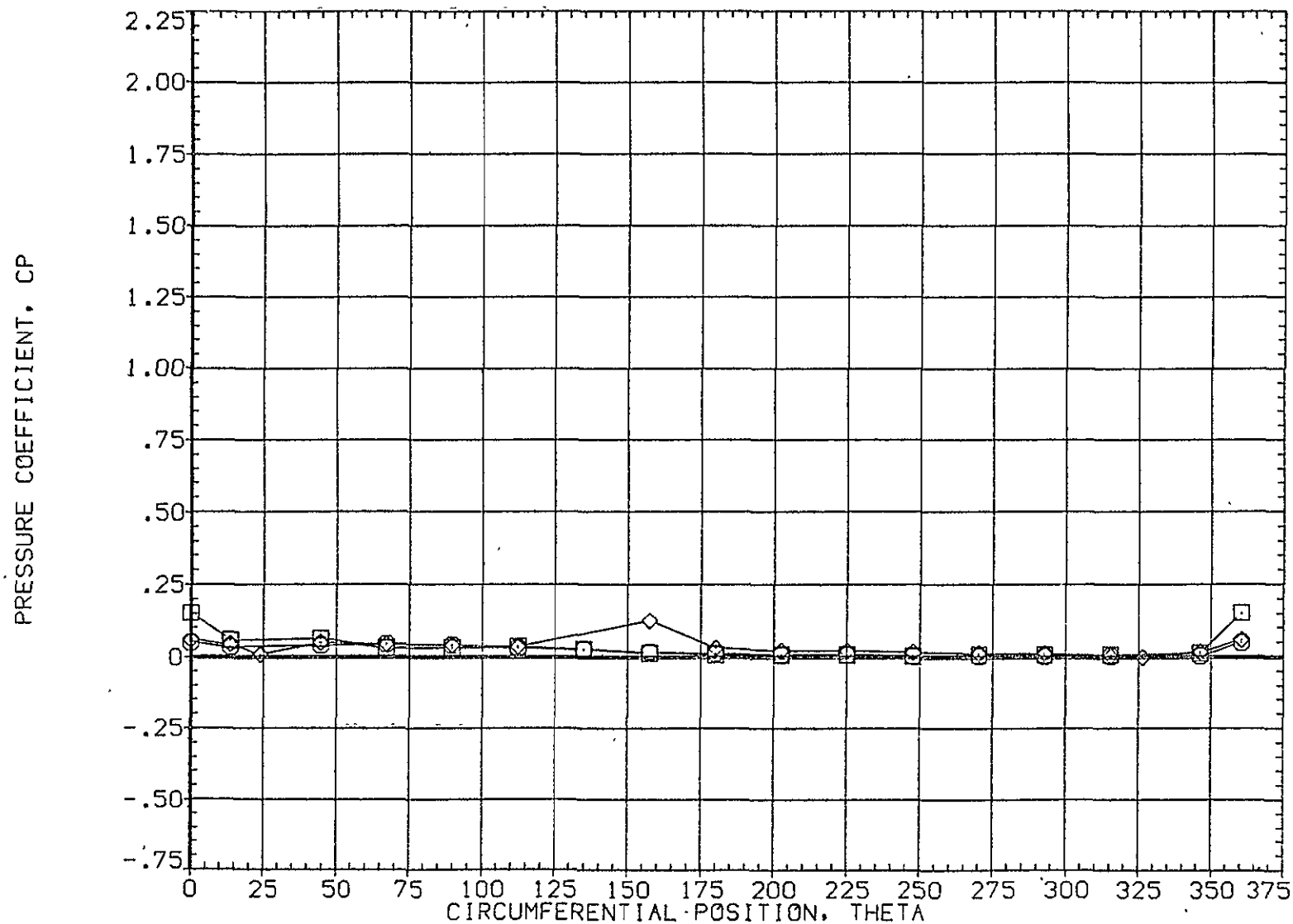


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.892	3.750	4.960		.000	.000
□	.923					
◇	.954					

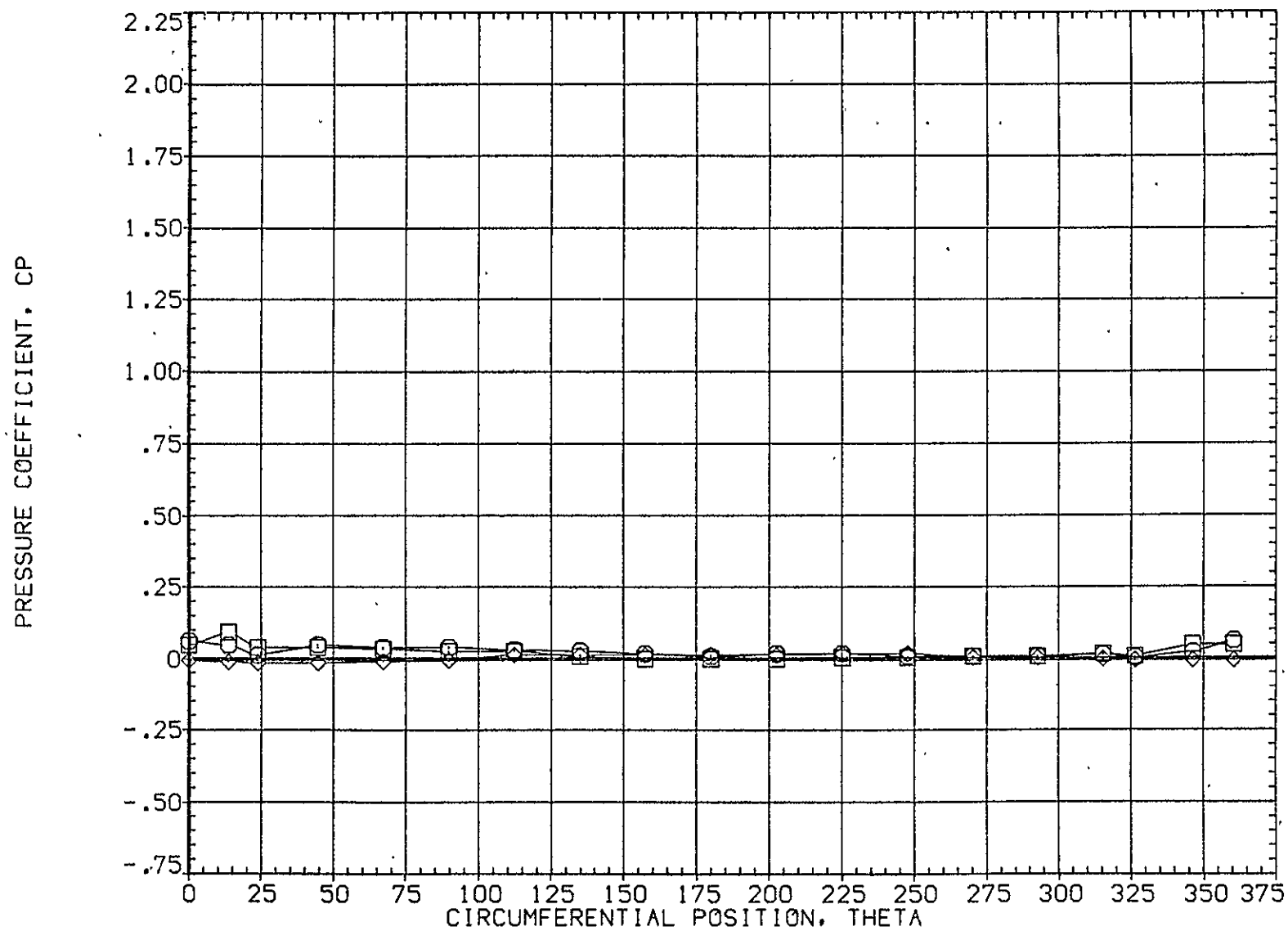


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A055)

SYMBOL	X/LB	ALPHA	MACH
○	.055	7.750	4.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	270.000

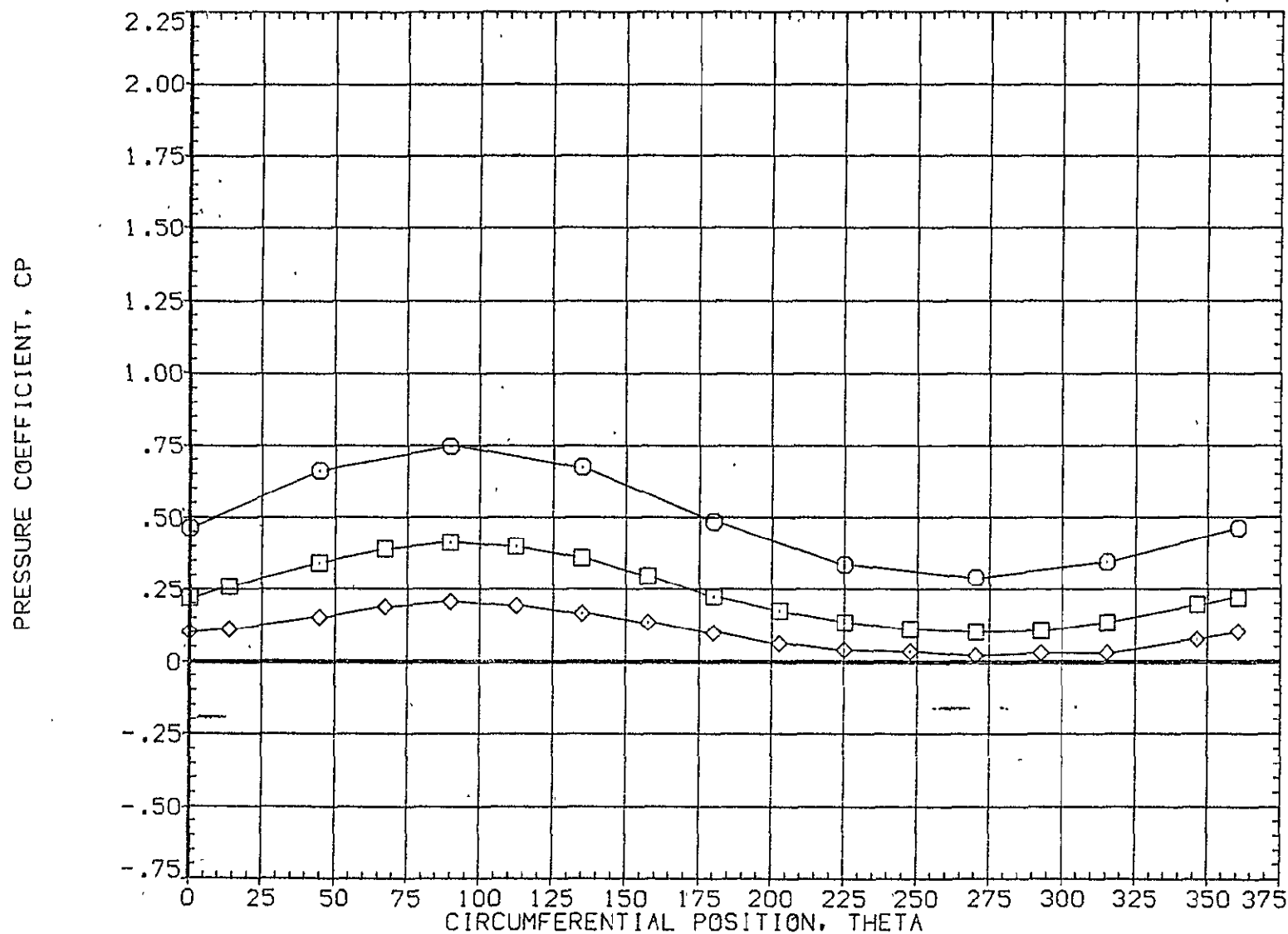


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.216	7.750	4.960	MOUNT	.000	.000	
□	.322				1.000	PHI	270.000
◇	.518						

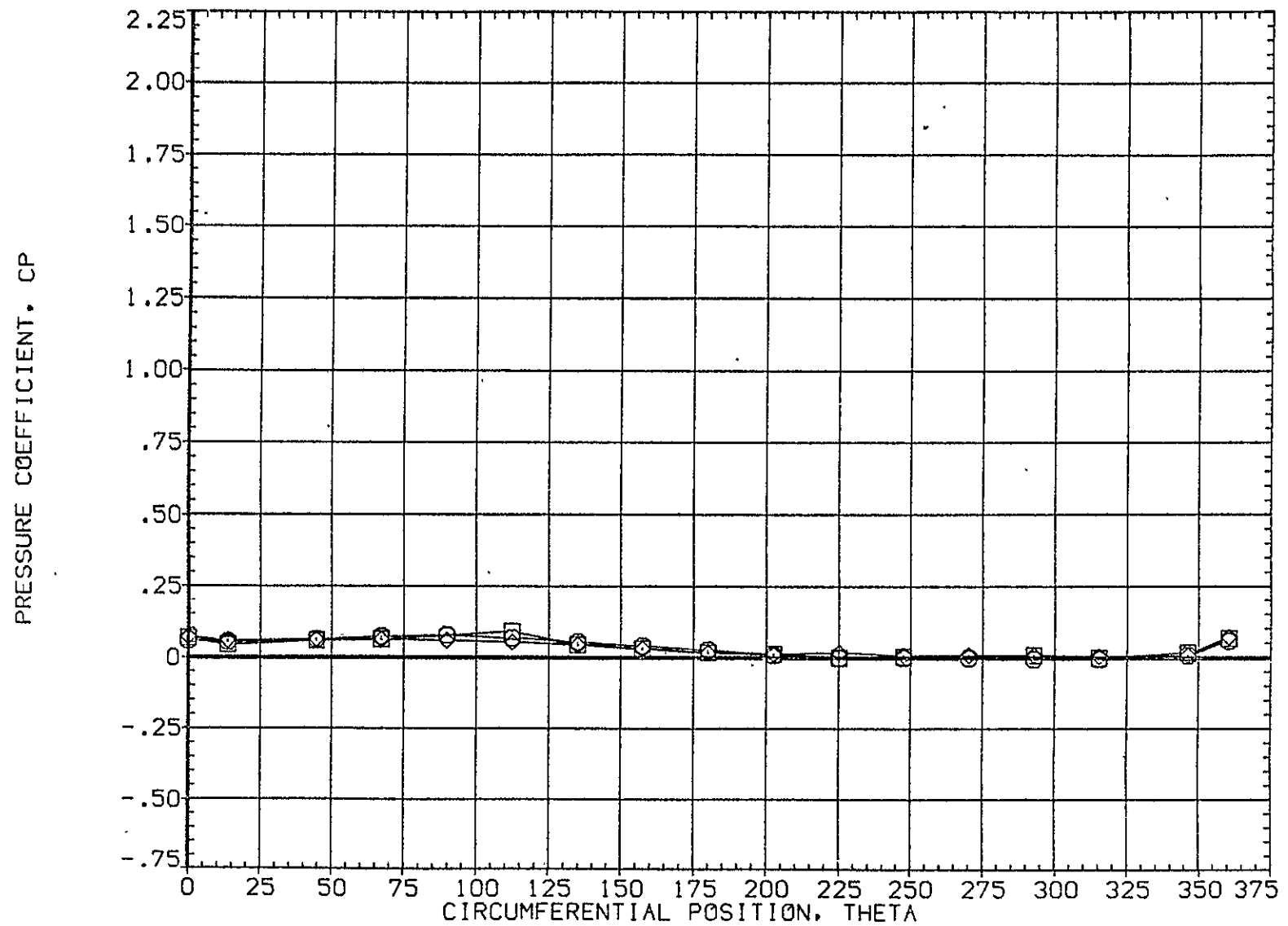


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A055)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.610	7.730	4.960	MOUNT	.000	PHI	270.000
□	.735				1.000		
◇	.860						

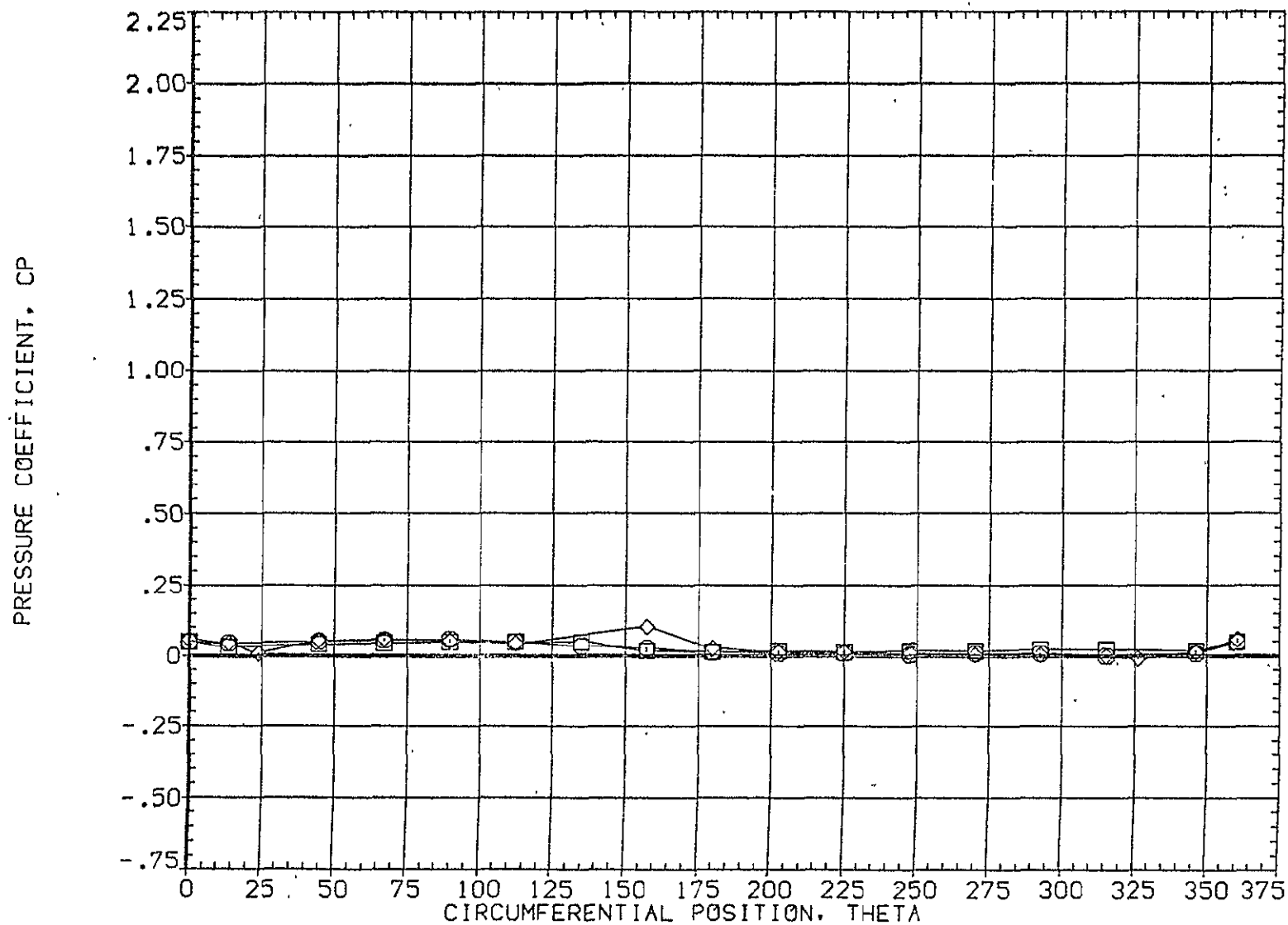


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.892	7.750	4.960		.000	OFFSET	.000
□	.923			MOUNT	1.000	PHI	270.000
◇	.954						

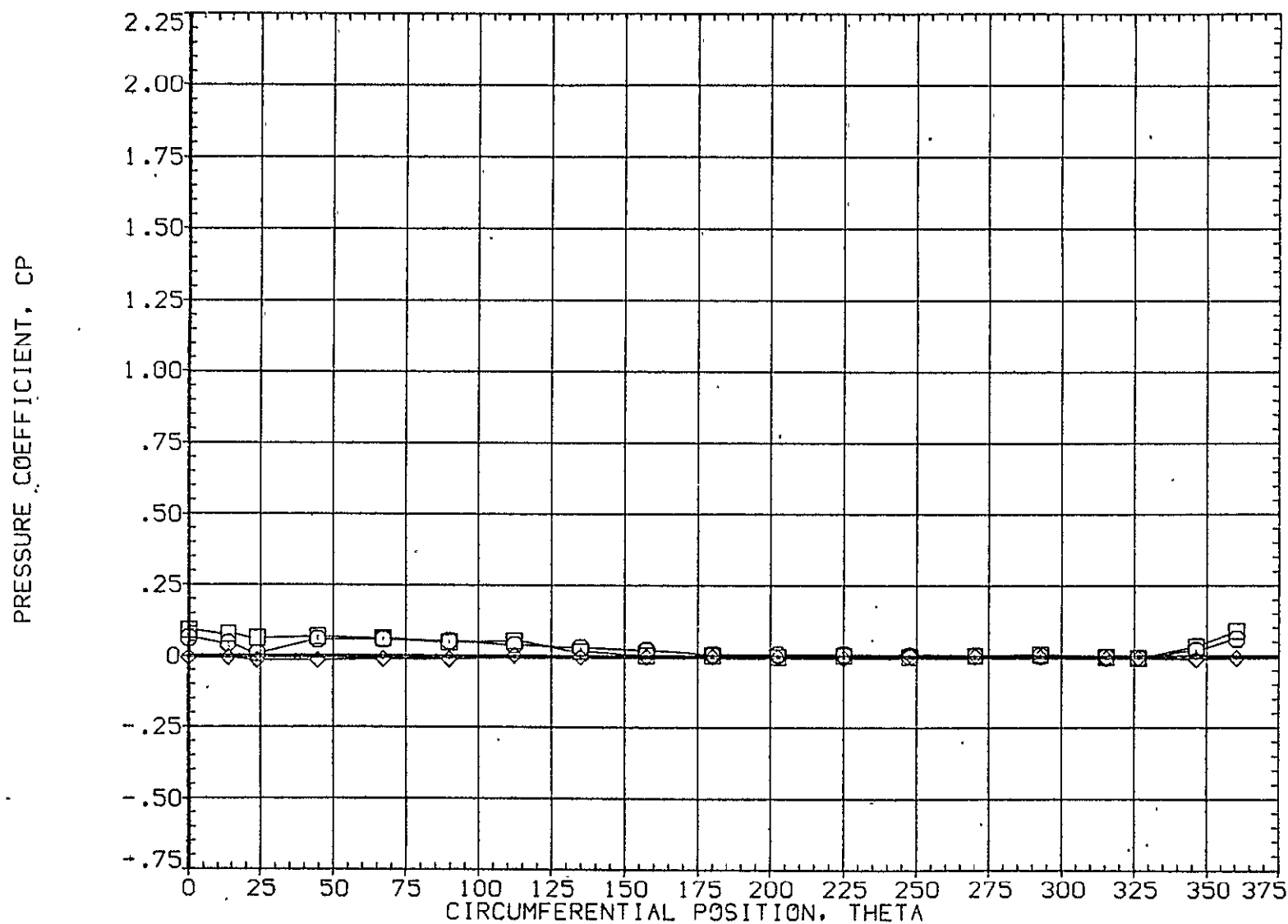


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	12.450	4.960	MOUNT	.000	PHI	270.000
□	.108				1.000		
◇	.162						

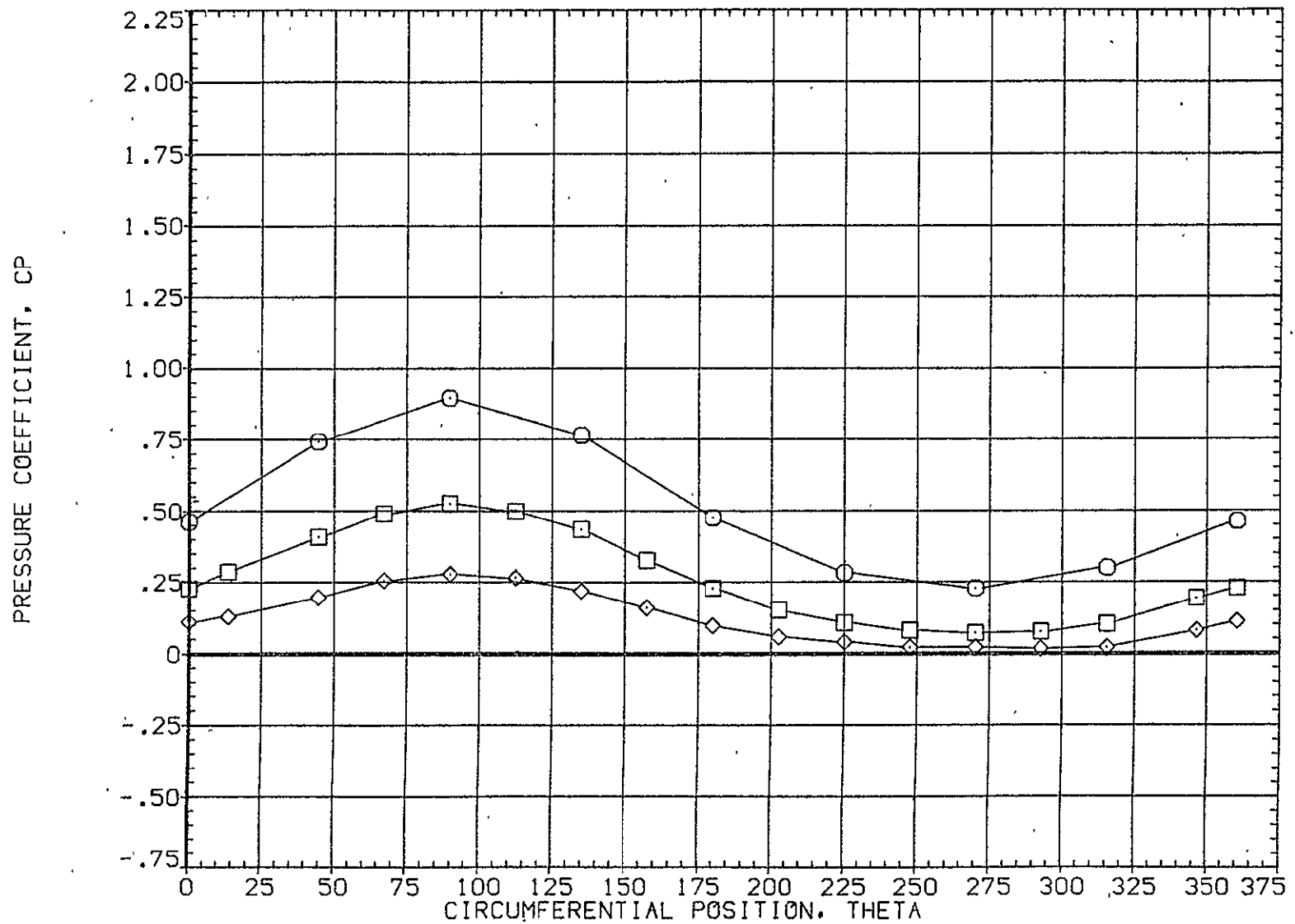


FIG. 5. CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	12.450	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 270.000

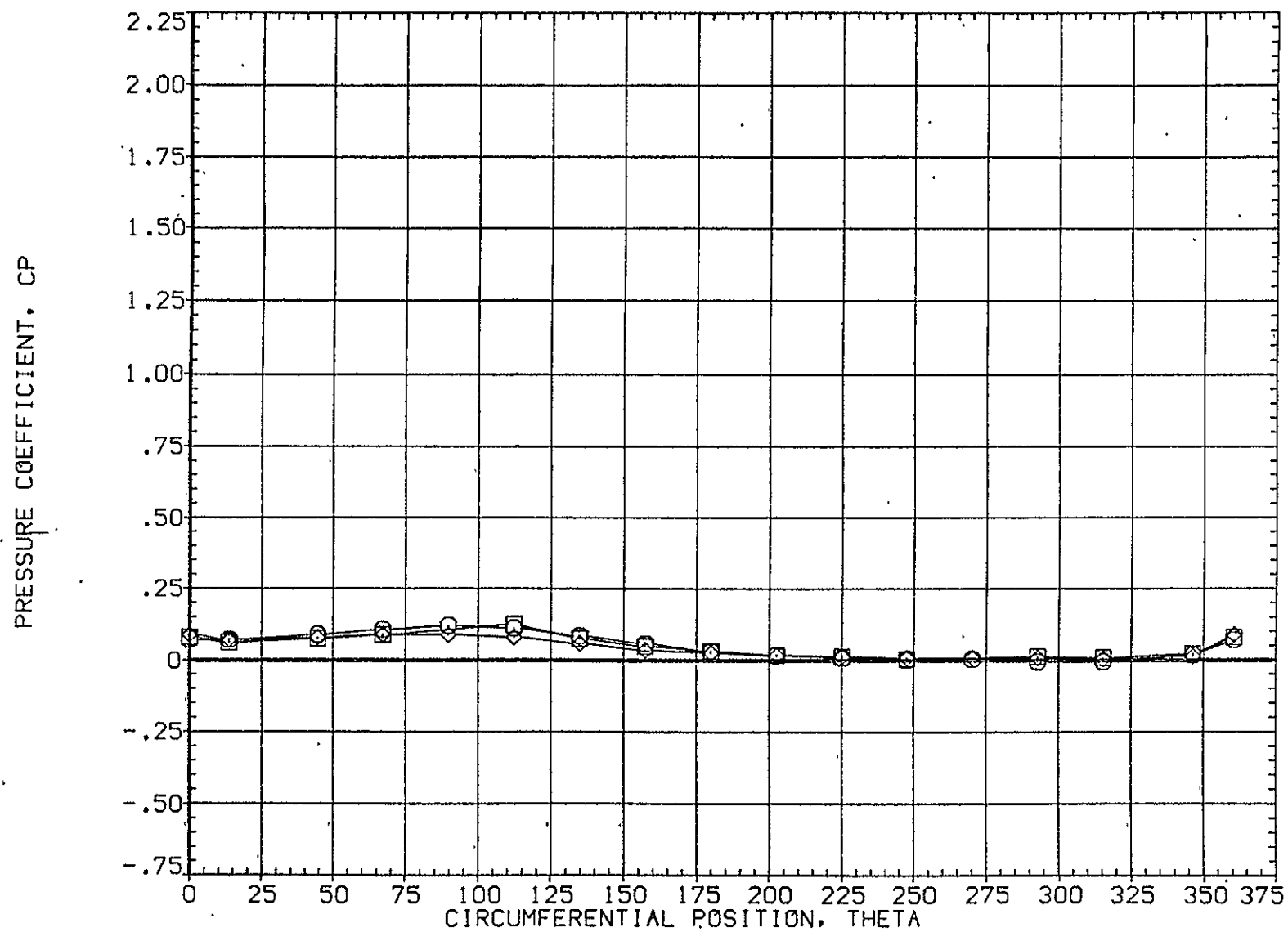


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1 (P1A056)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	12.450	4.960	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	270.000
◇	.860						

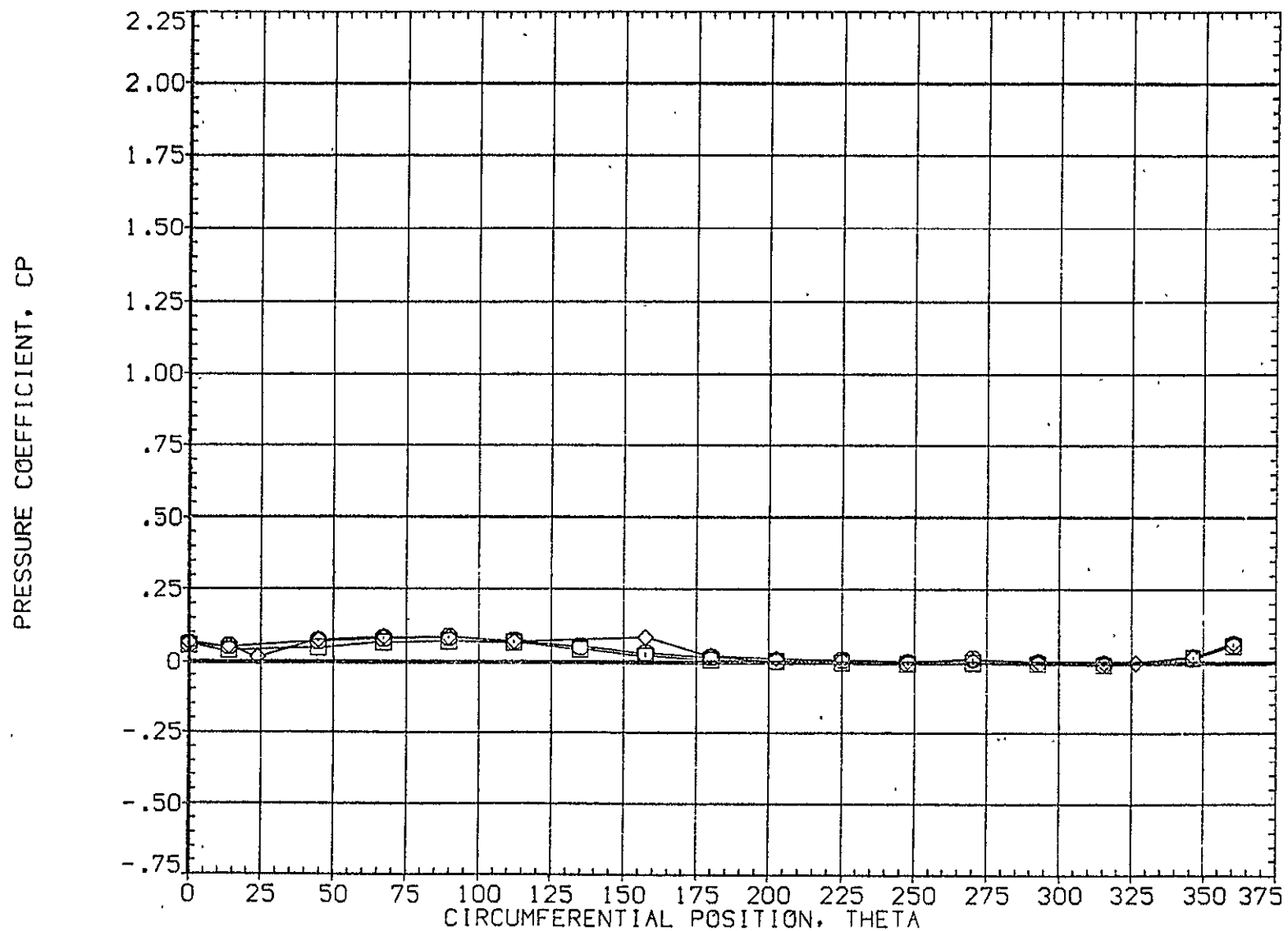


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	12.450	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 270.000

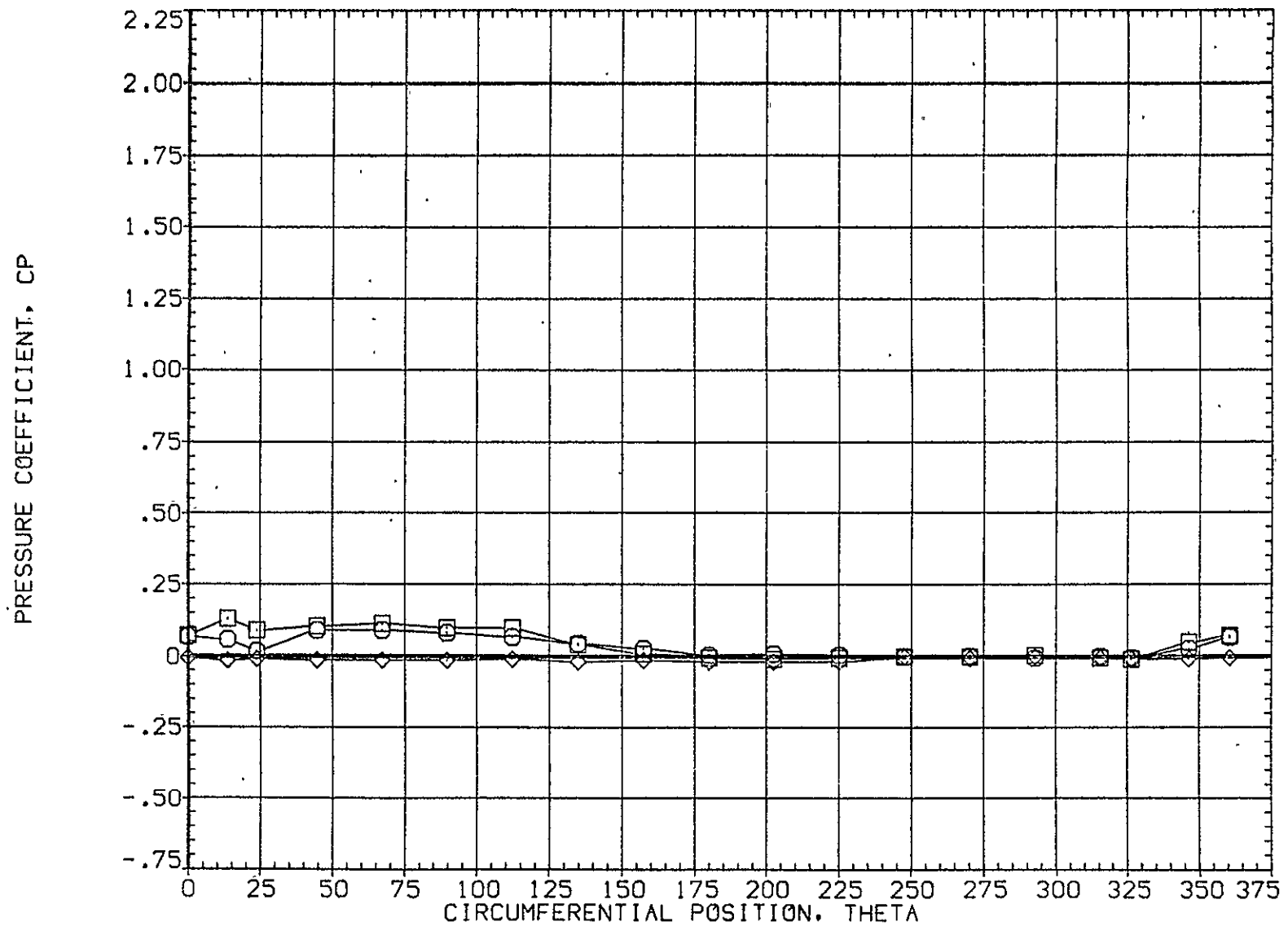


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A057)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	20.000	
○	.055	16.450	4.960	MOUNT	1.000	PHI	270.000
□	.108						
◇	.162						

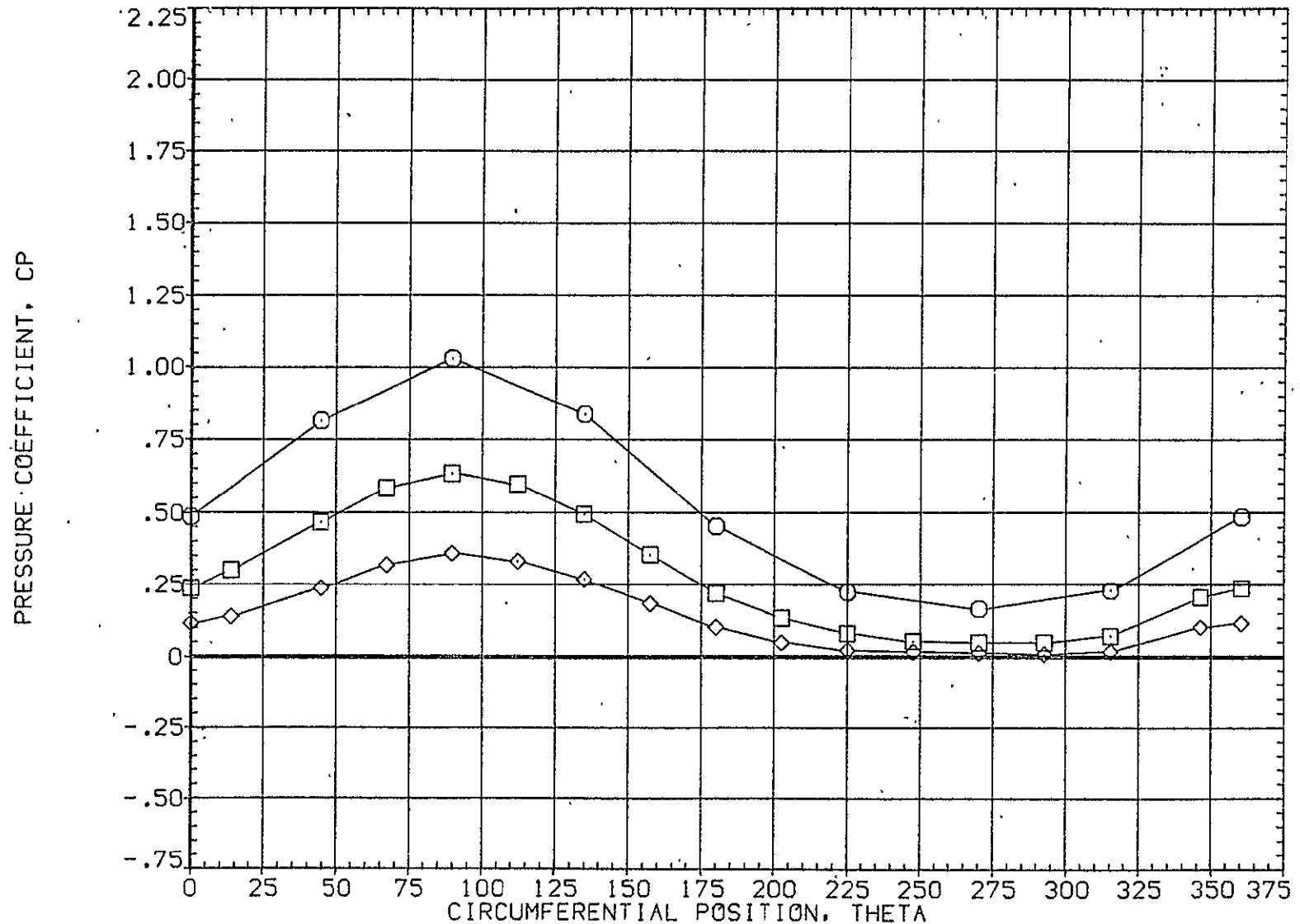


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
				MOUNT	PHI	270.000
○	.216	16.450	4.960			
□	.322					
◇	.518					

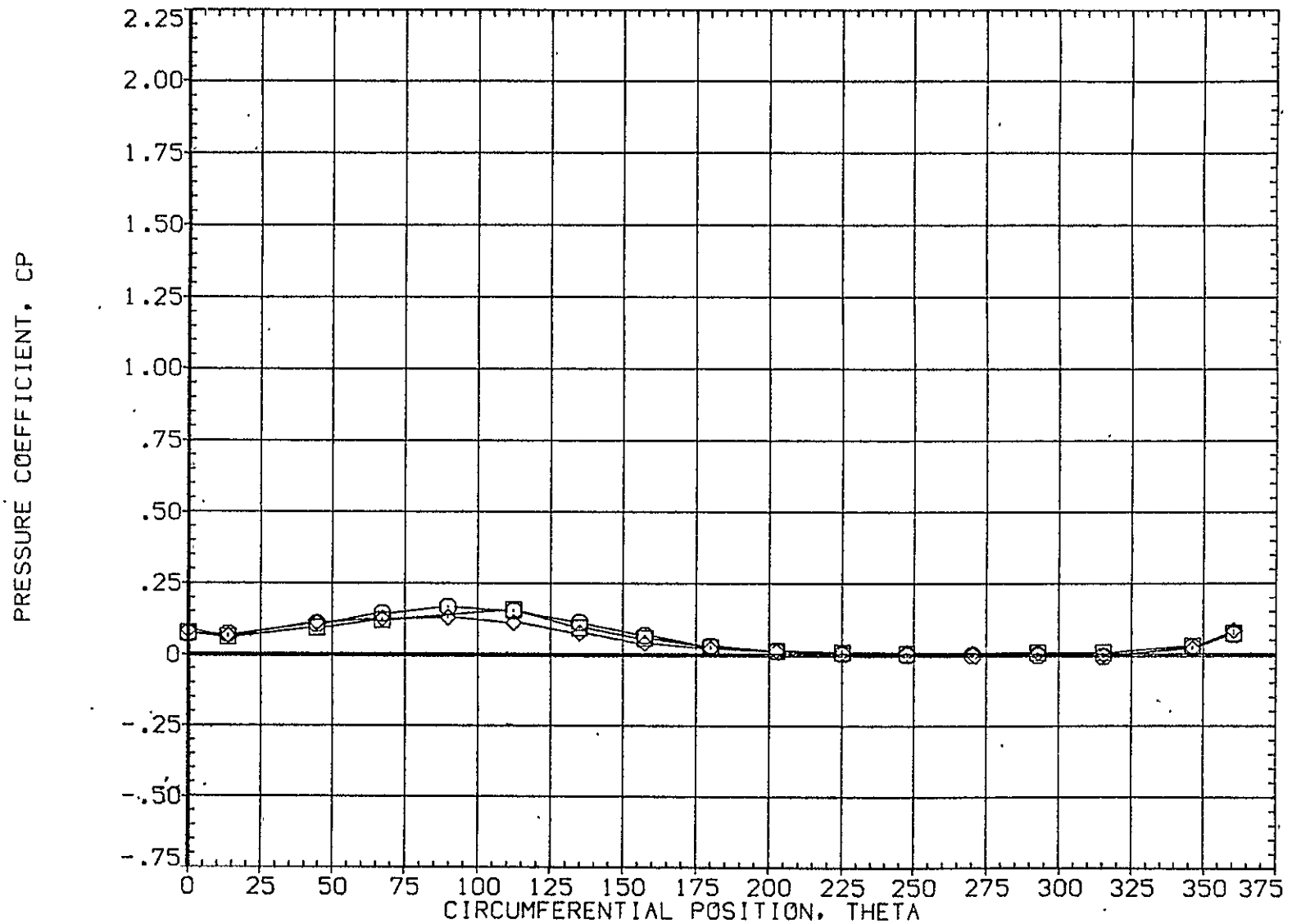


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A057)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	16.450	4.960	.000	OFFSET 20.000
□	.735			1.000	PHI 270.000
◇	.860				

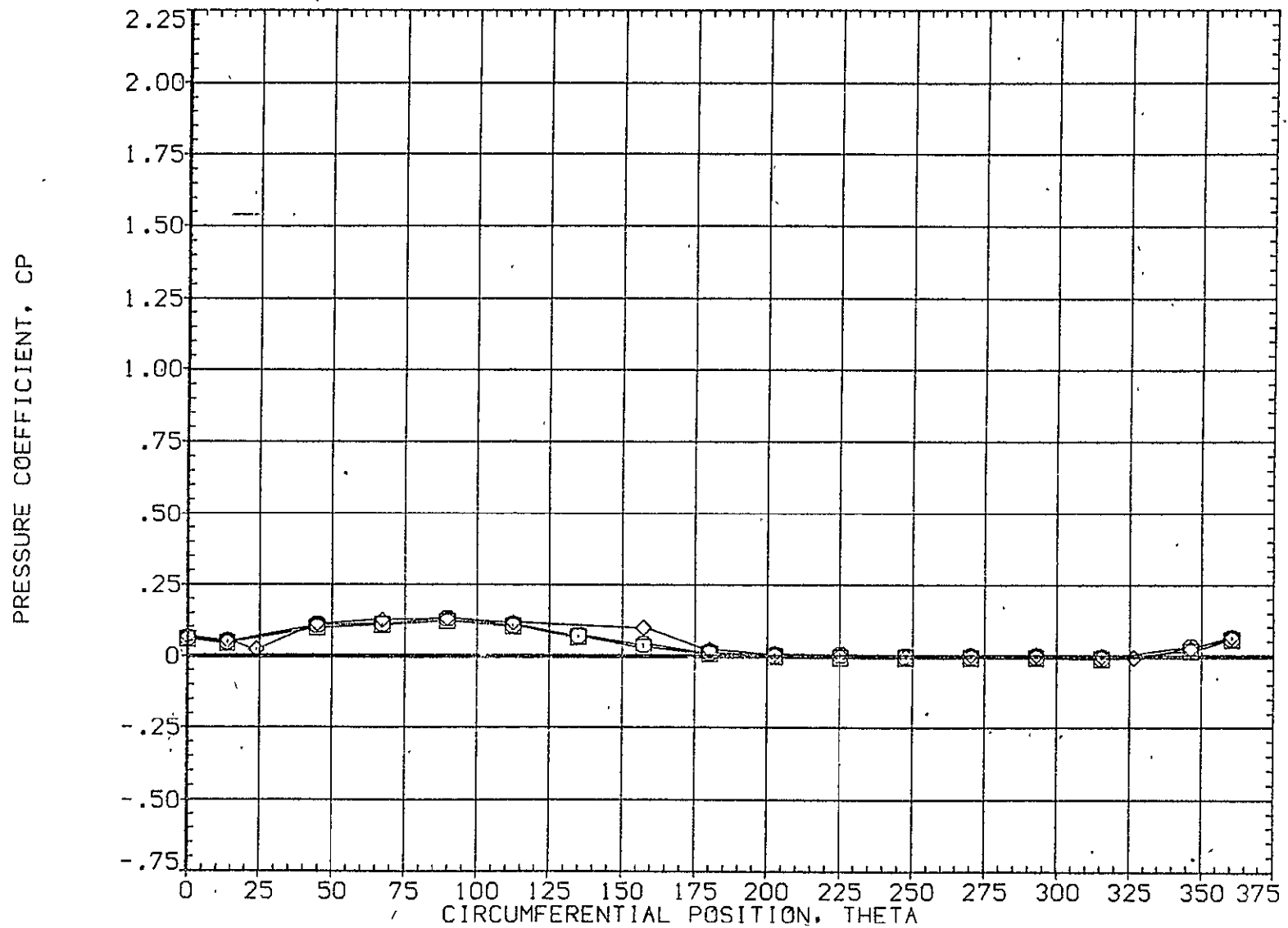


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	16.450	4.960		20.000	
□	.923			MOUNT	1.000	PHI
◇	.954					270.000

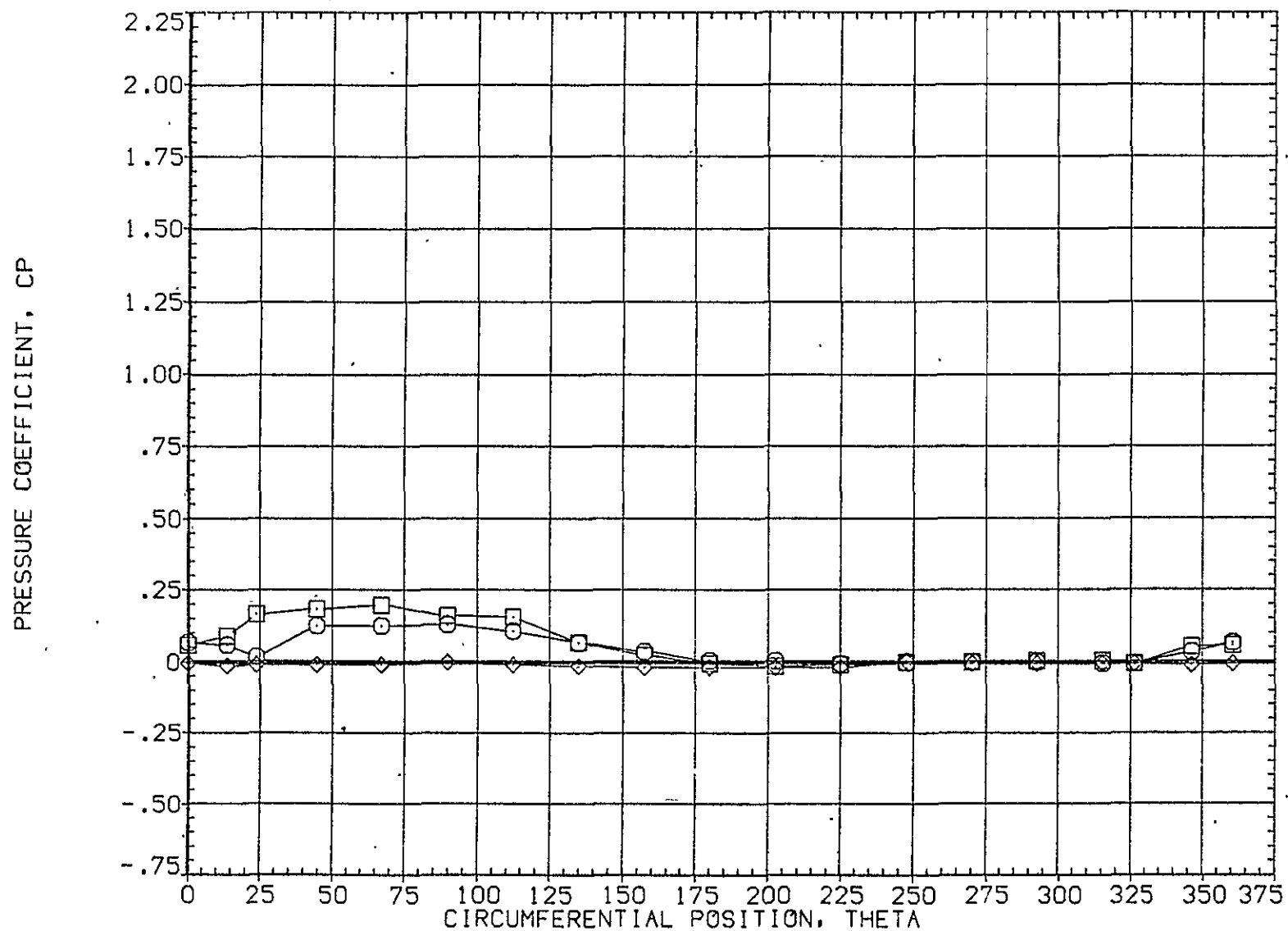
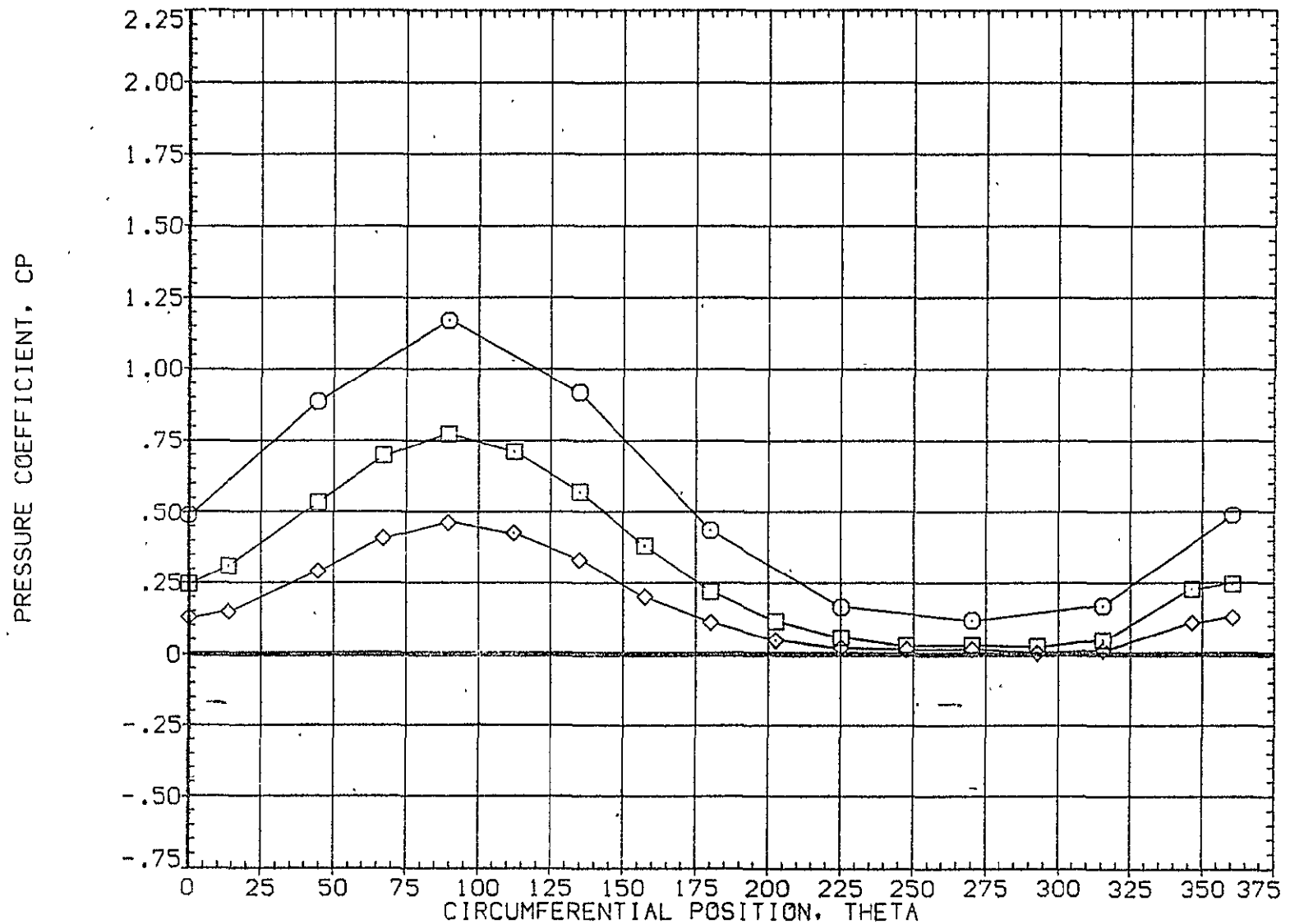


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A058)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.055	20.490	4.960	MOUNT	.000	OFFSET	20.000
□	.108				1.000	PHI	270.000
◇	.162						



16.5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.490	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

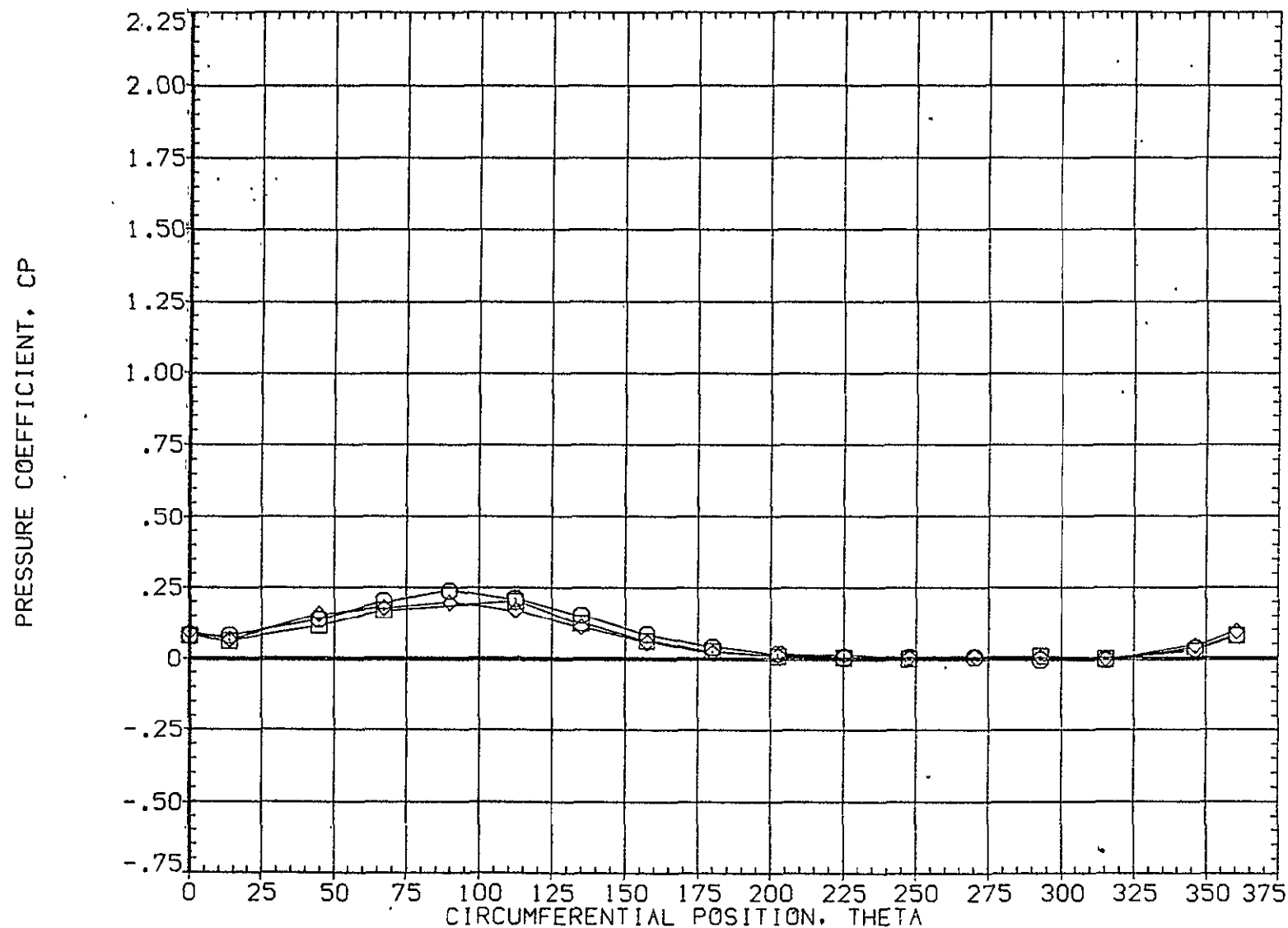


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A058)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	20.490	4.960	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	270.000
◇	.860						

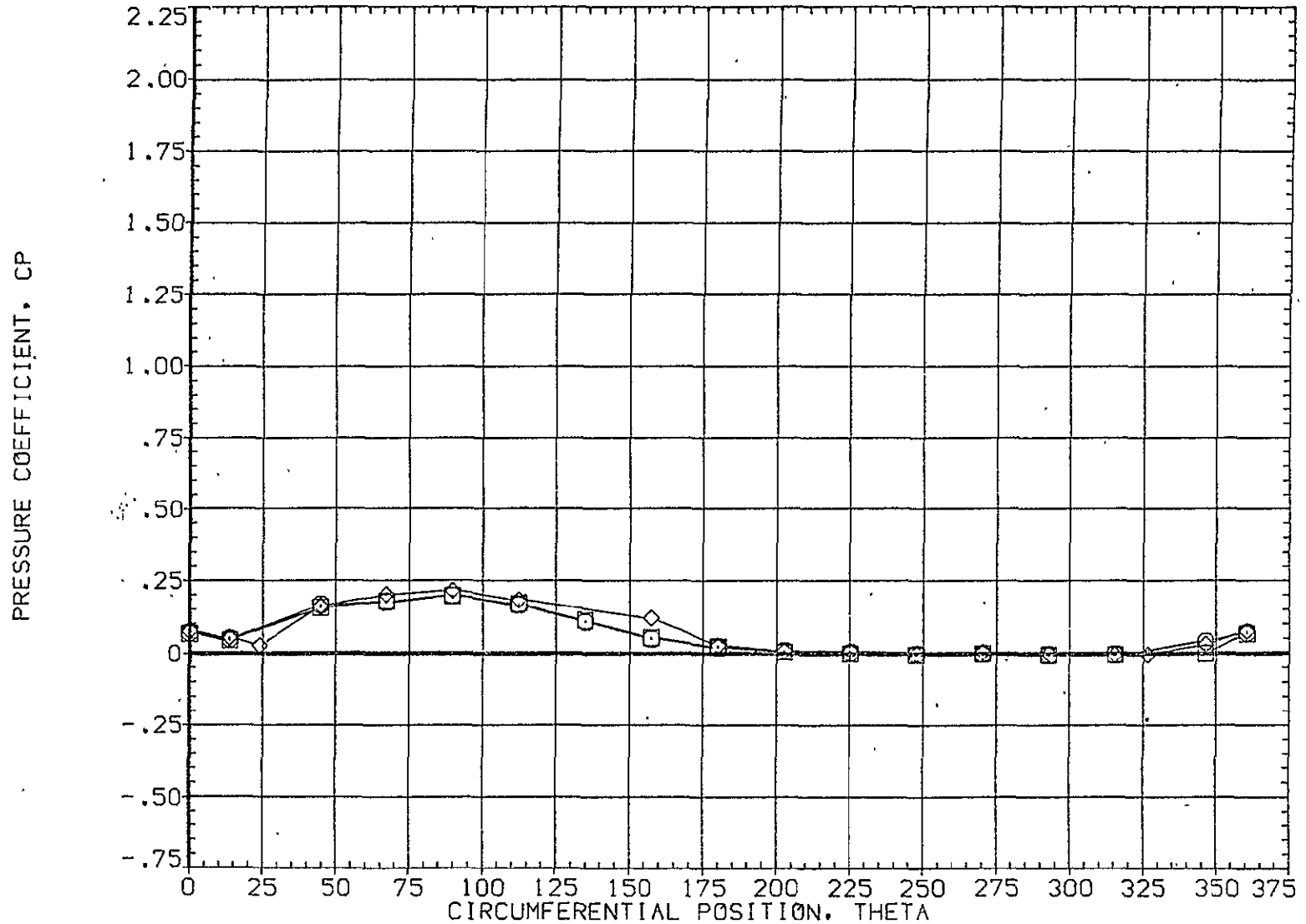


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	20.490	4.960	.000	20,000	
□	.923			1.000	PHI	270,000
◇	.954					

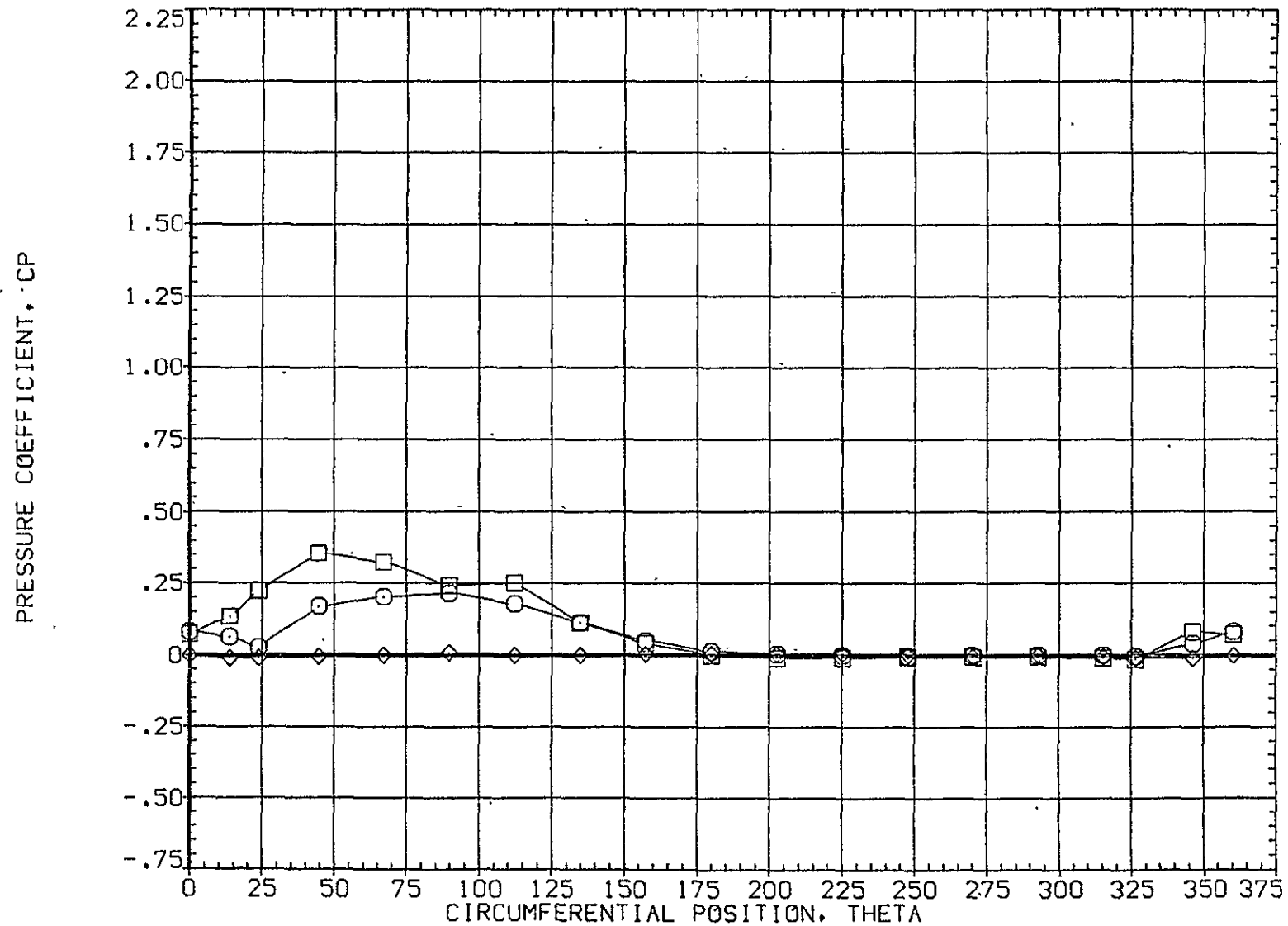


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A059)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.055	24.530	4.960	MOUNT	.000 OFFSET 20.000
□	.108				1.000 PHI 270.000
◇	.162				

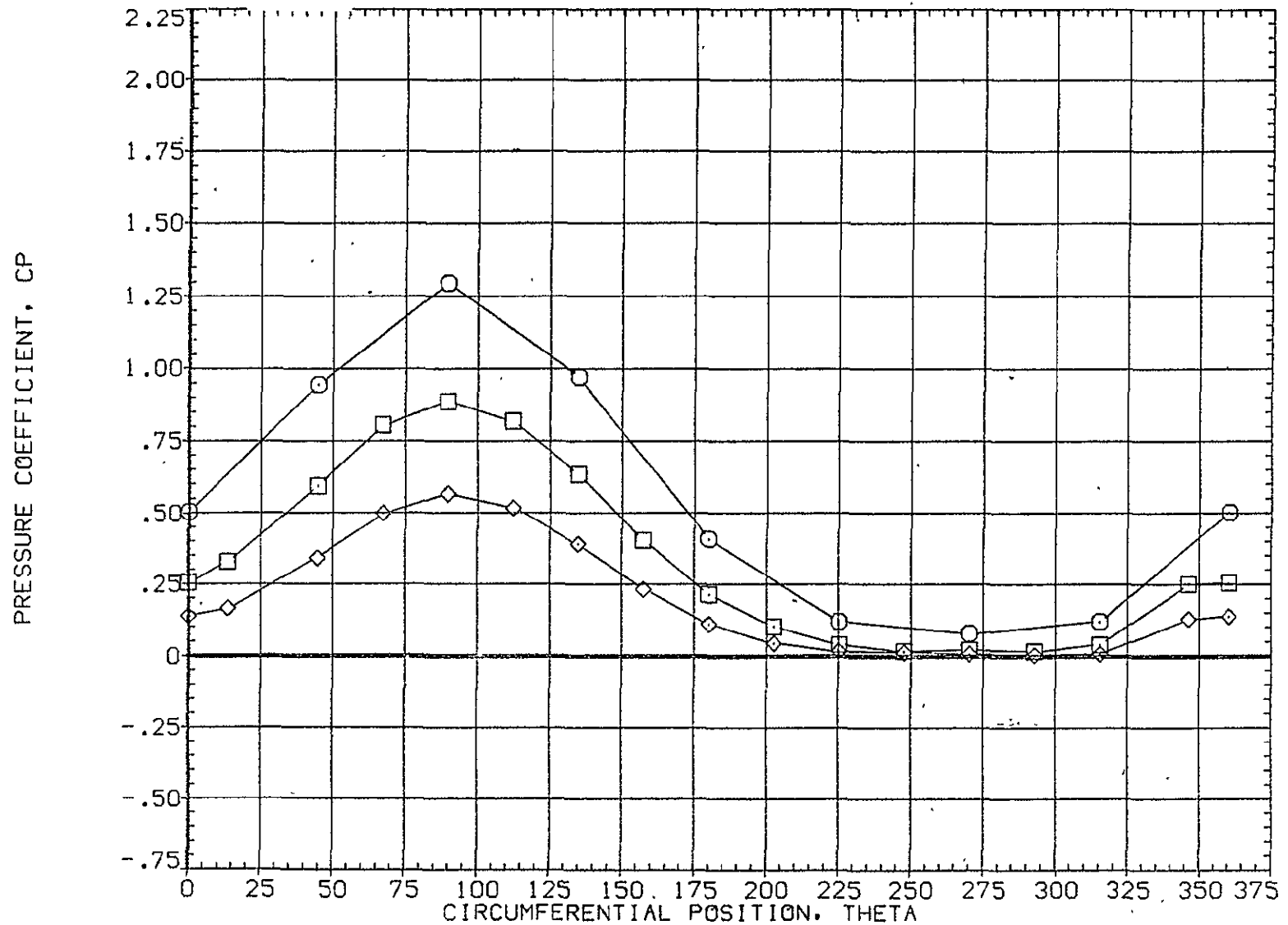


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	24.530	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 270.000

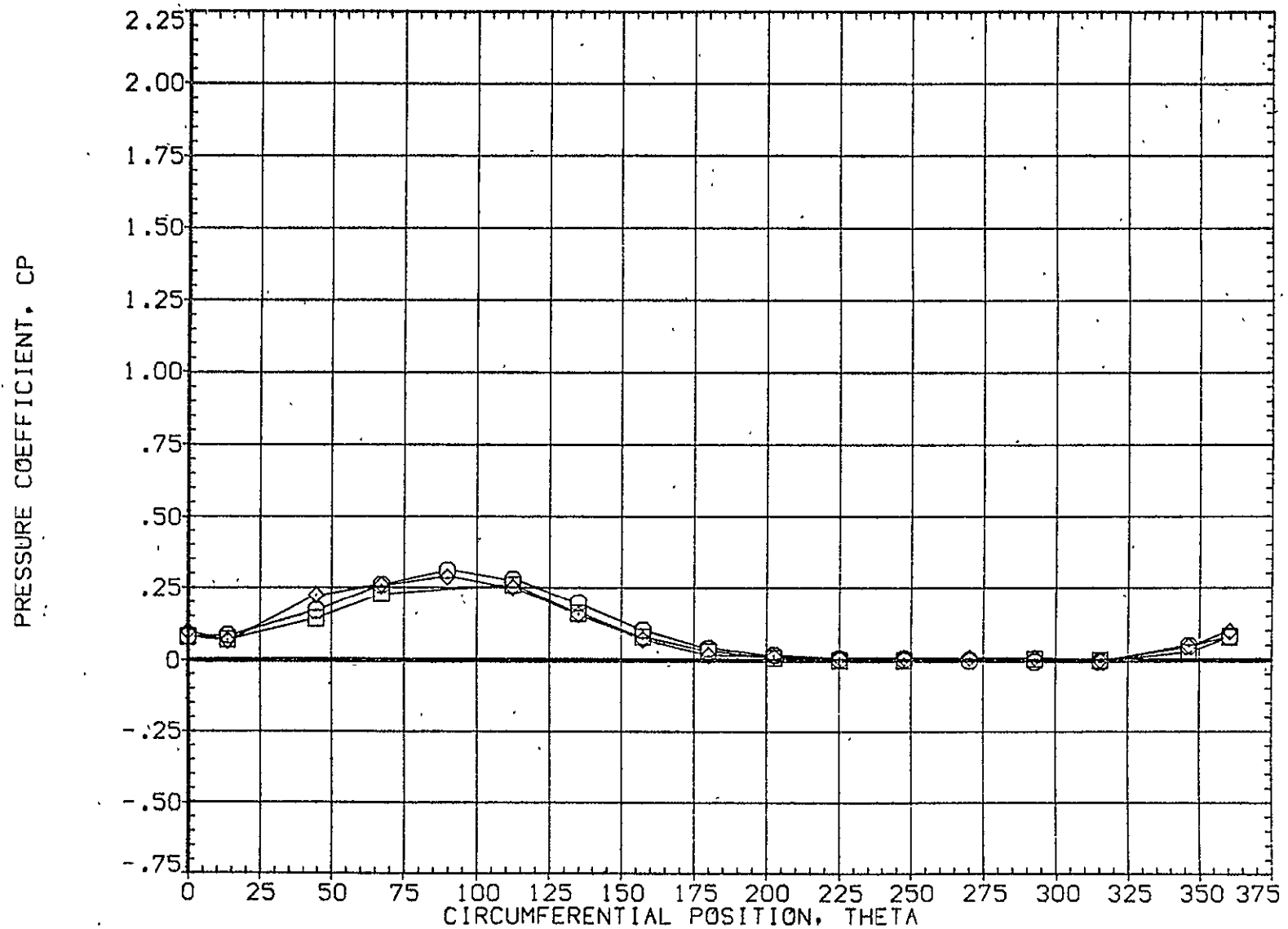


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A059)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20,000
○	.610	24.530	4.960	MOUNT	1.000	PHI 270.000
□	.735					
◇	.860					

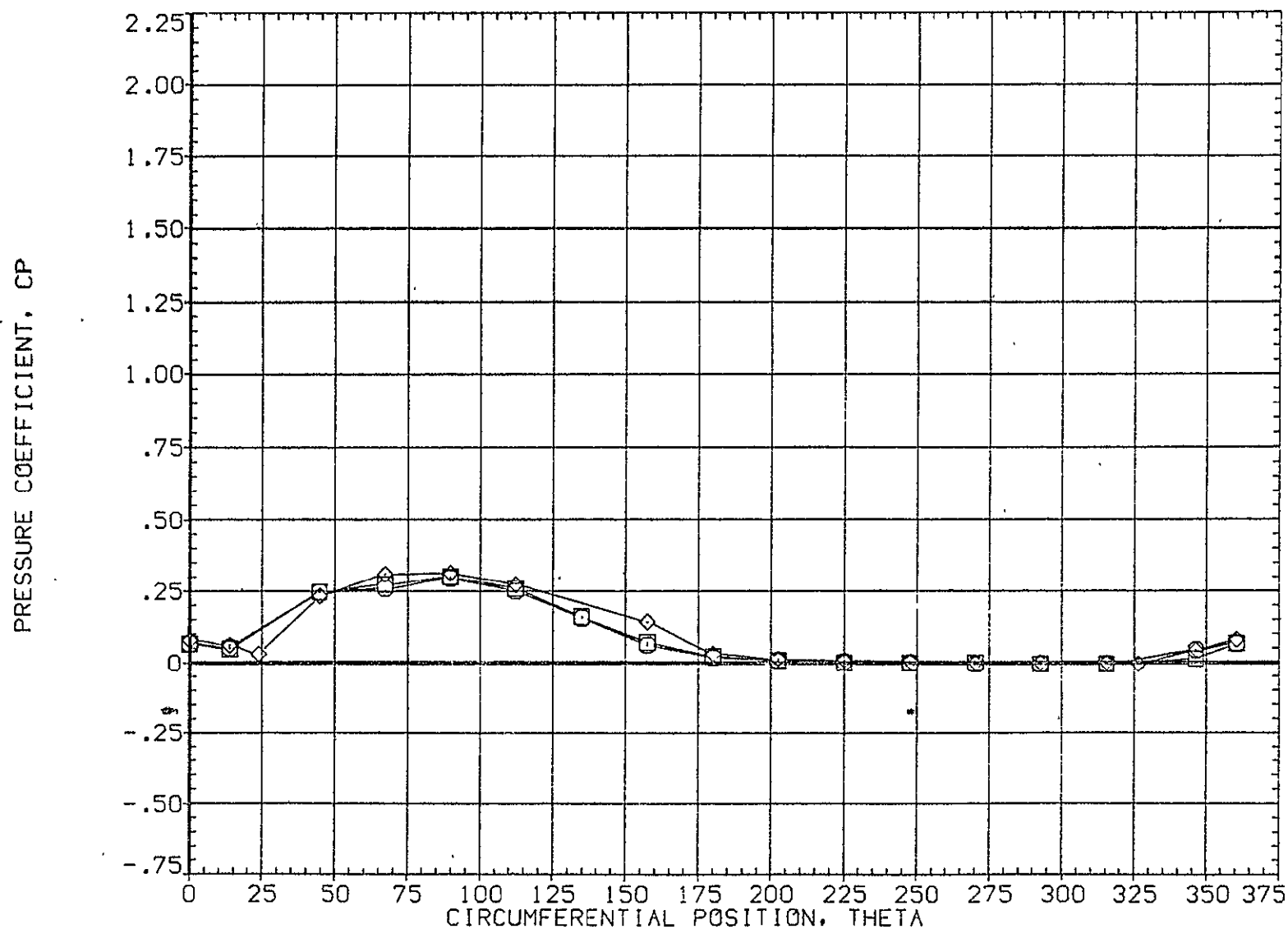


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	24.530	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 270.000

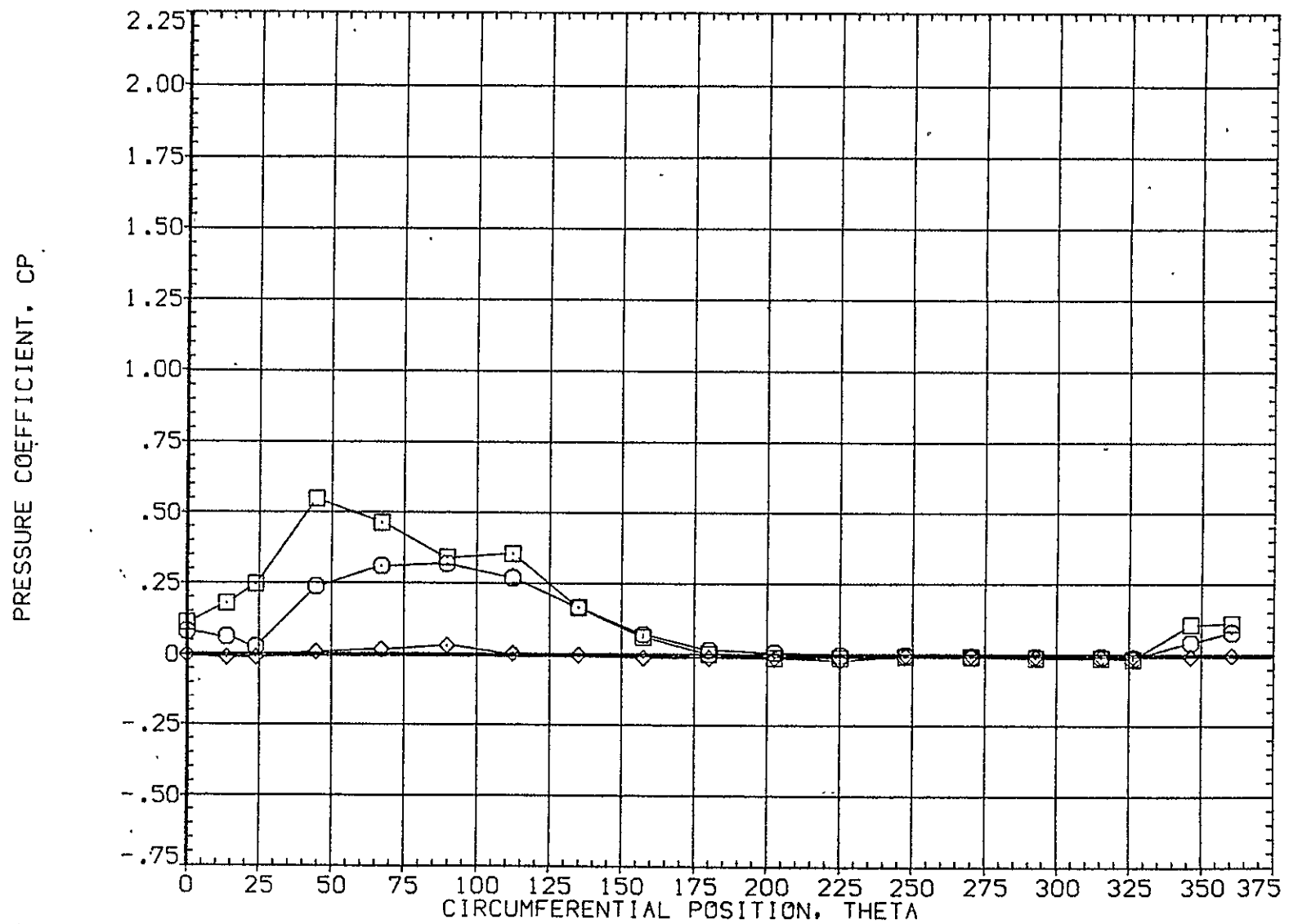


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A060)

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

BETA

.000

OFFSET

20.000

MOUNT

1.000

PHI

270.000

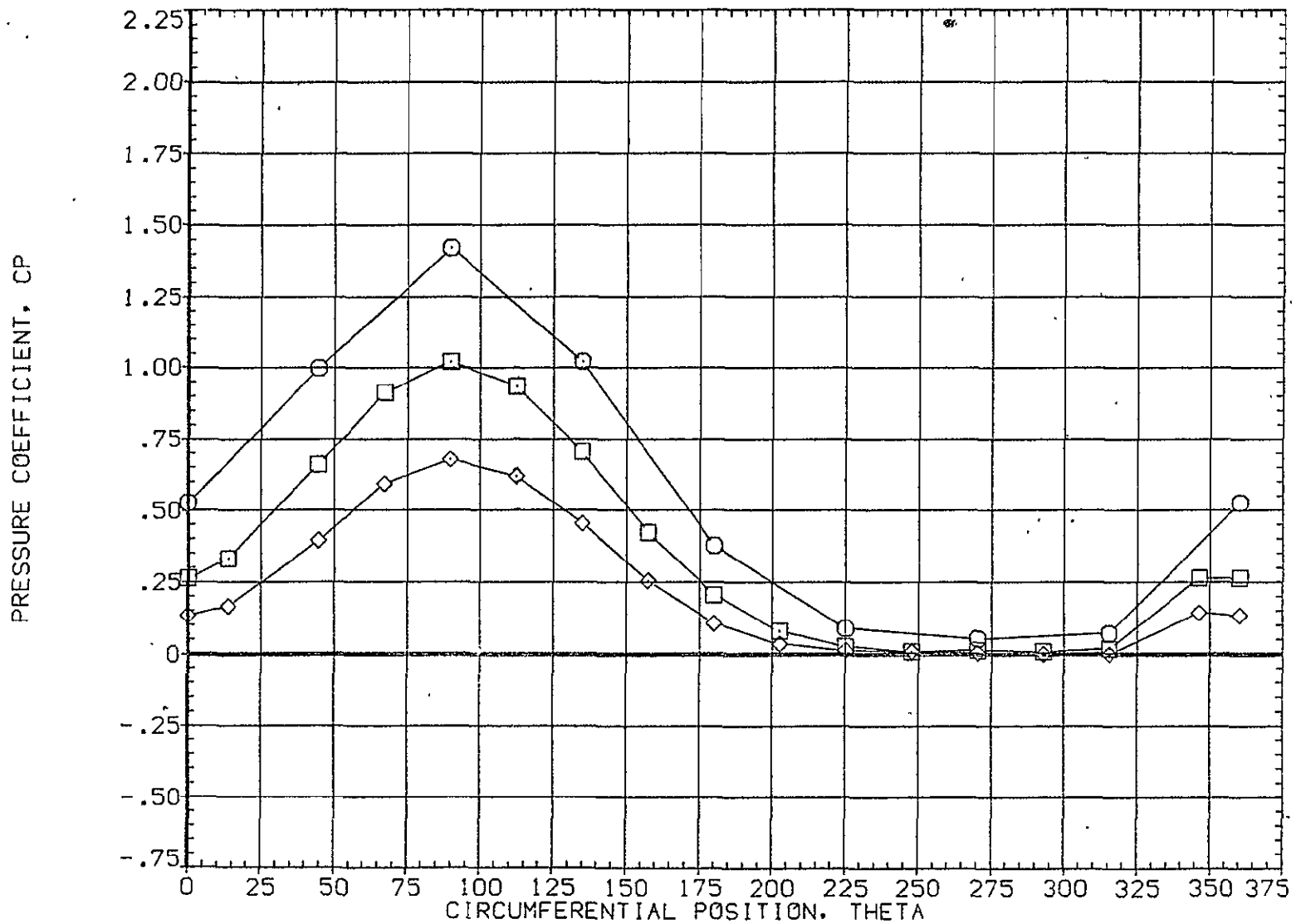


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	28.540	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 270.000

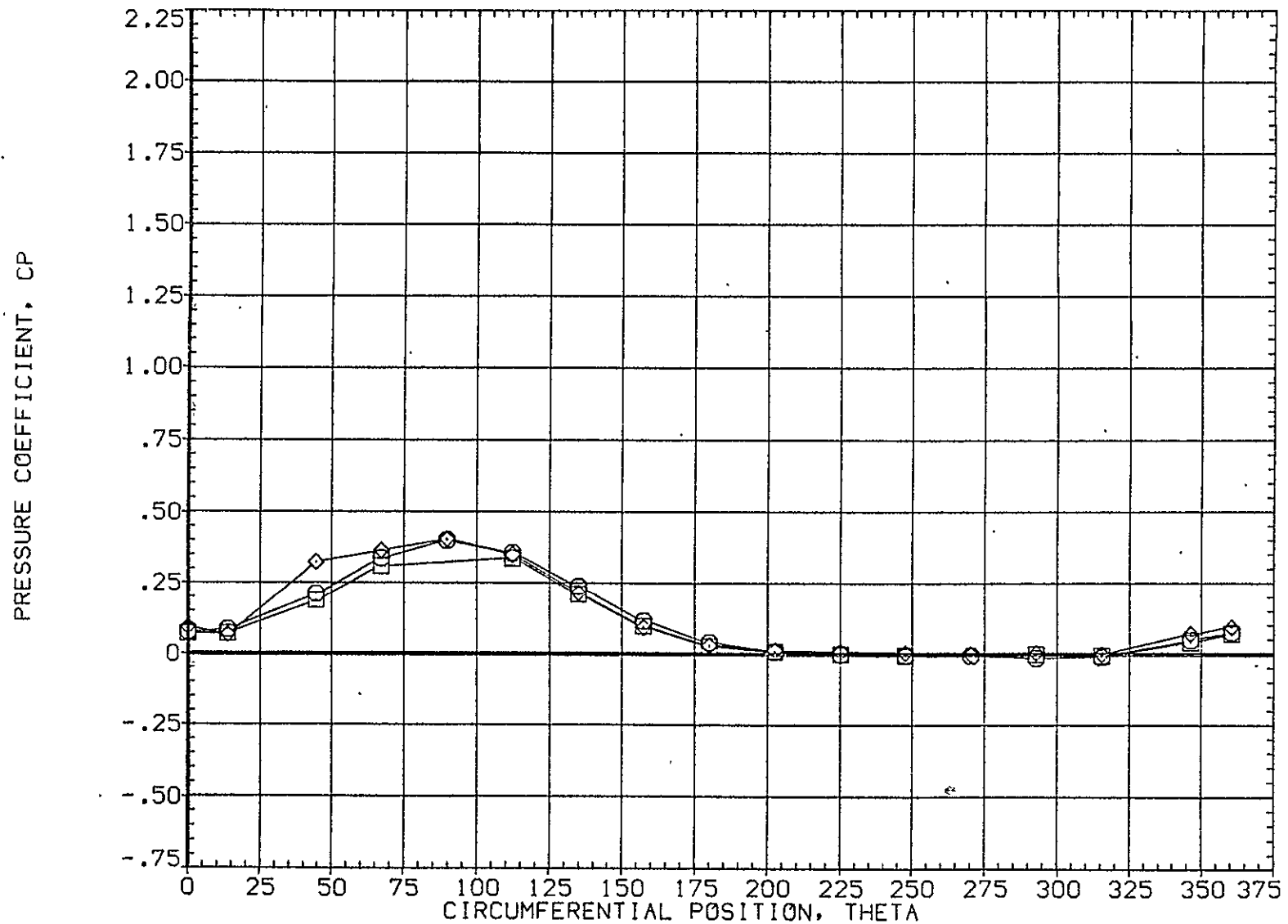


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A060)

SYMBOL	X/LB	ALPHA	MACH
○	.610	28.540	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	270.000

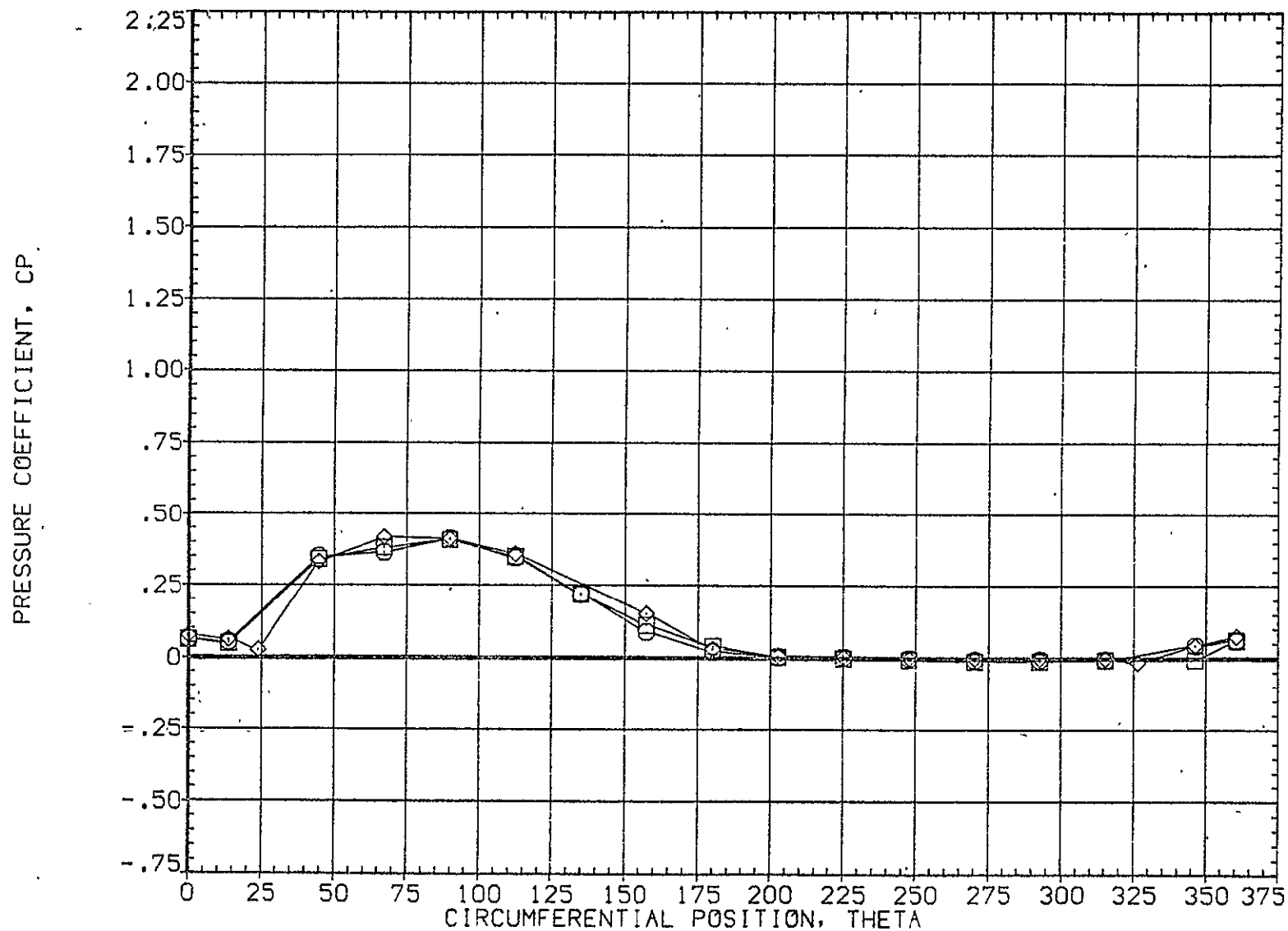


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.892	28.540	4.960	.000	OFFSET 20.000
□	.923			1.000	PHI 270.000
◇	.954				

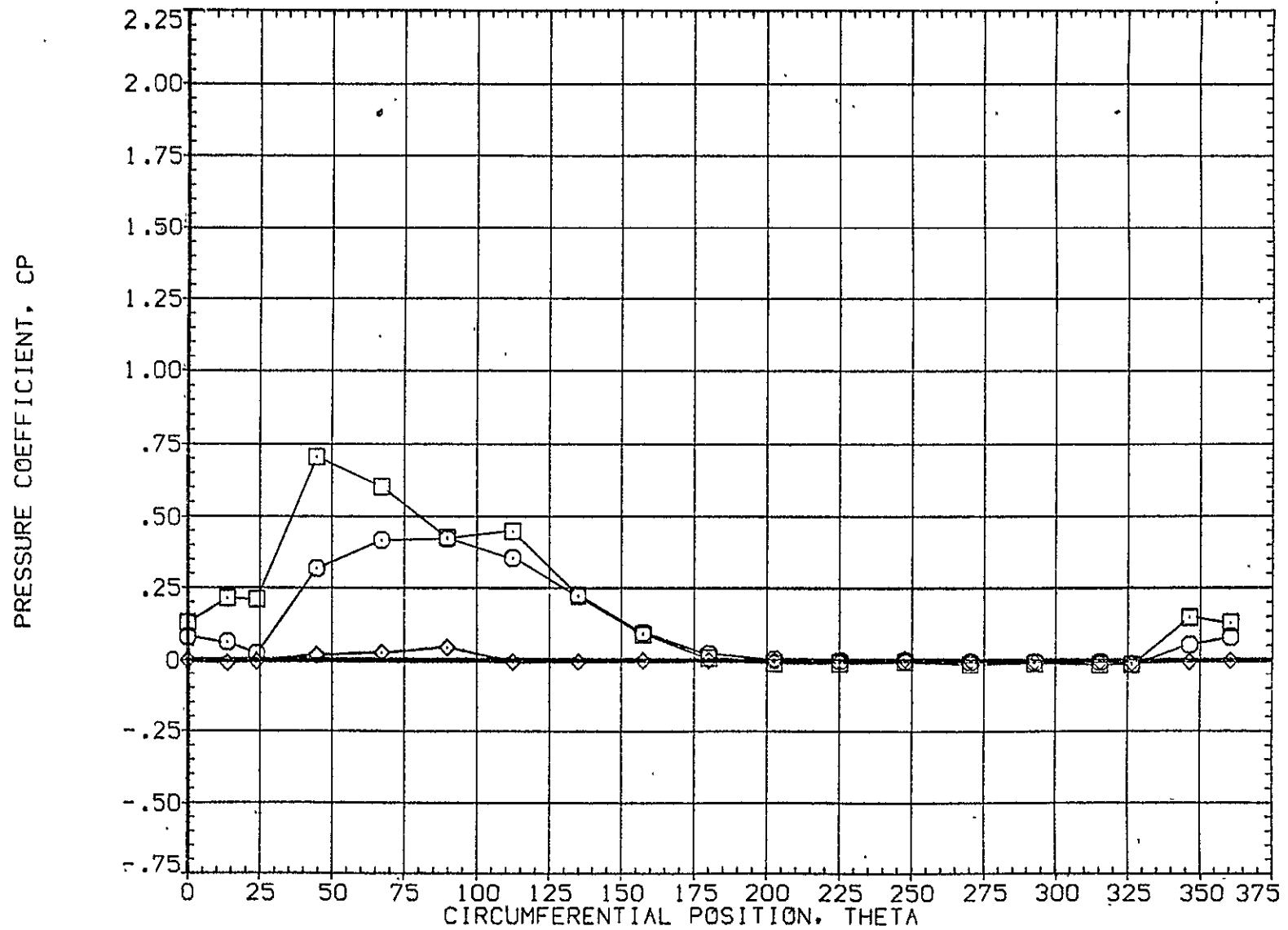


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A091)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	-8.310	4.960	.000	.000		.000
□	.108			1.000			315.000
◇	.162						

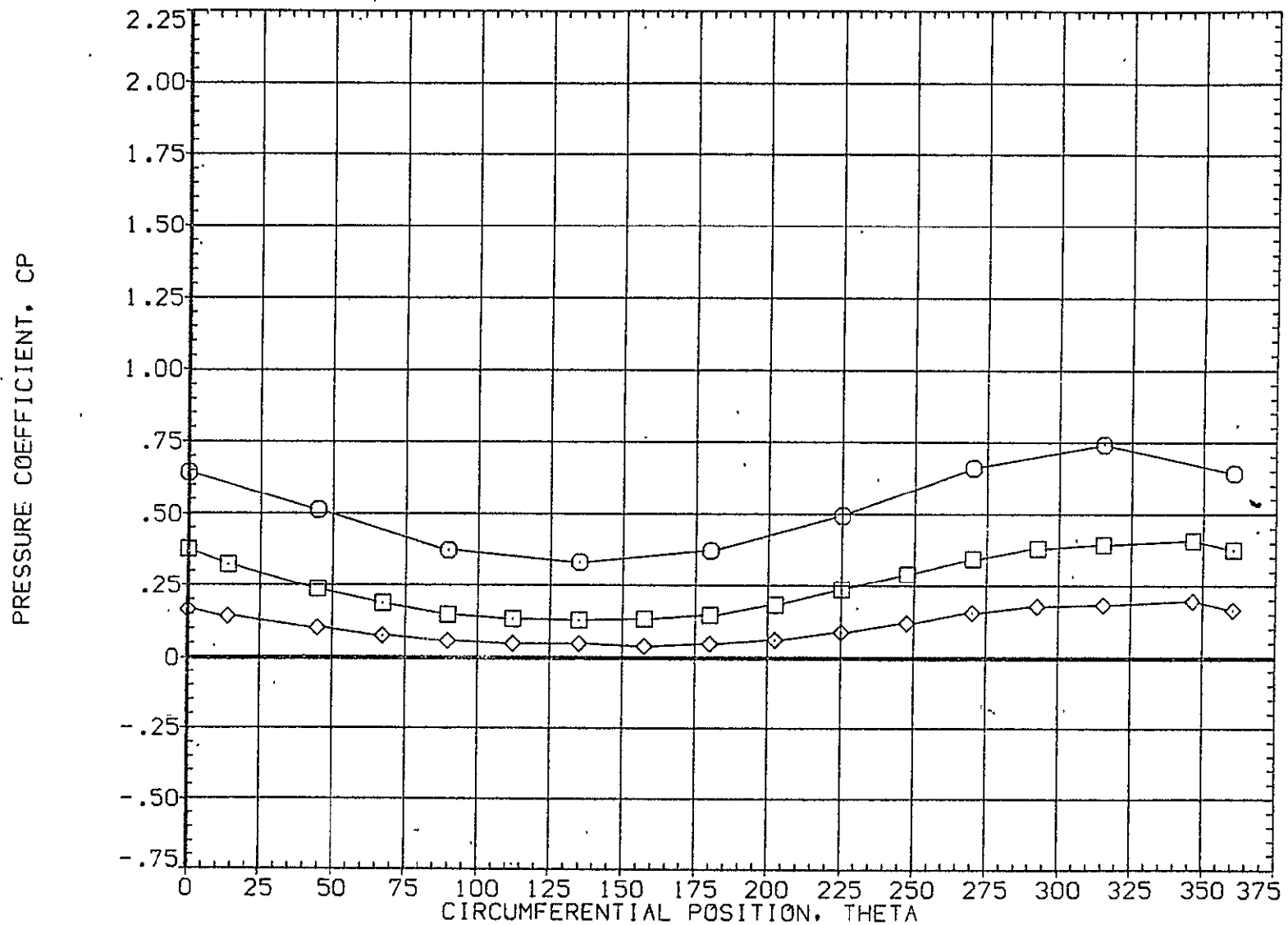


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	-8.310	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET .000
MOUNT	1.000	PHI 315.000

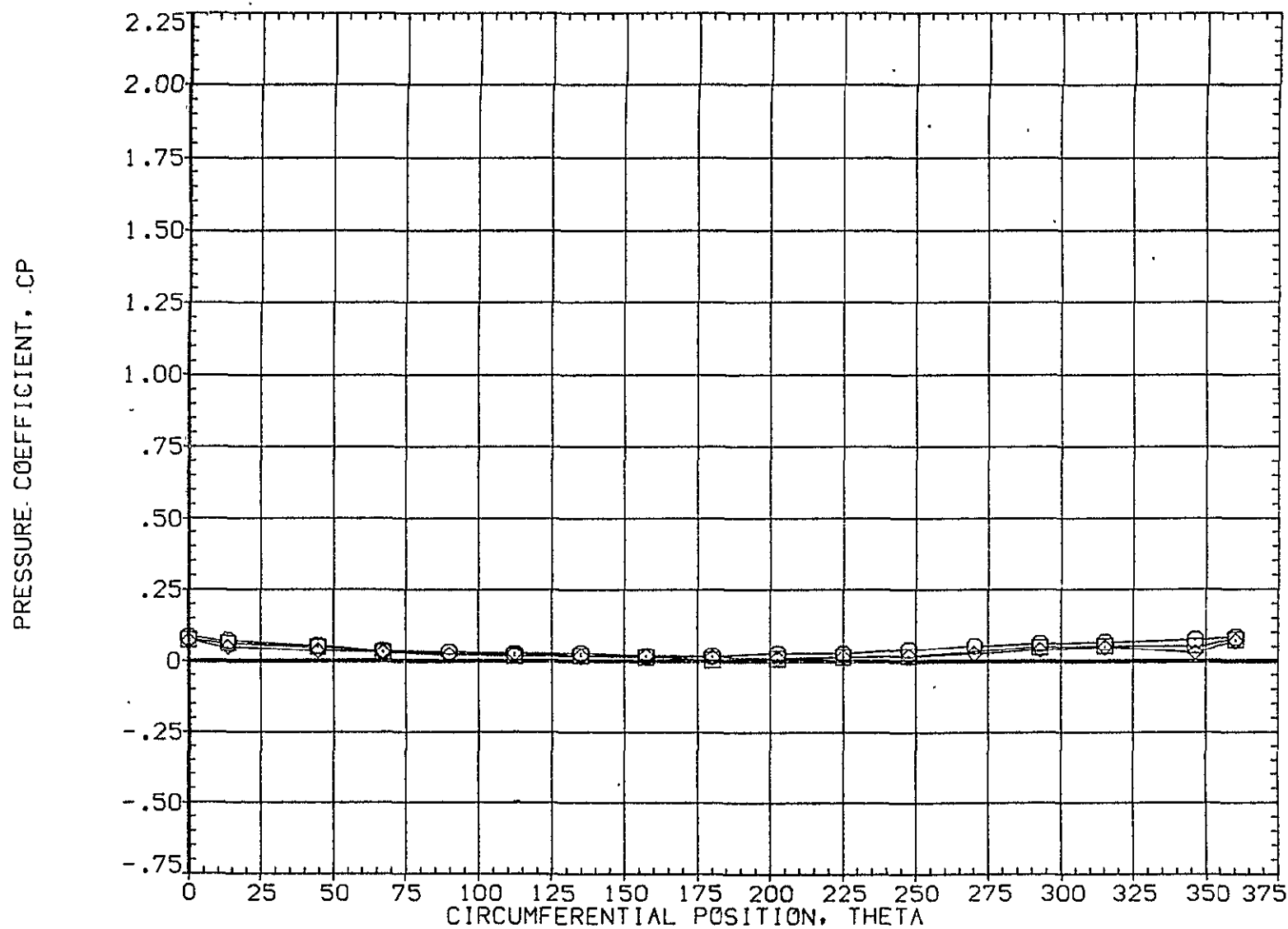


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A091)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
	.610	-8.310	4.960	BETA	.000	OFFSET, .000
	.735			MOUNT	1.000	PHI 315.000
◇	.860					

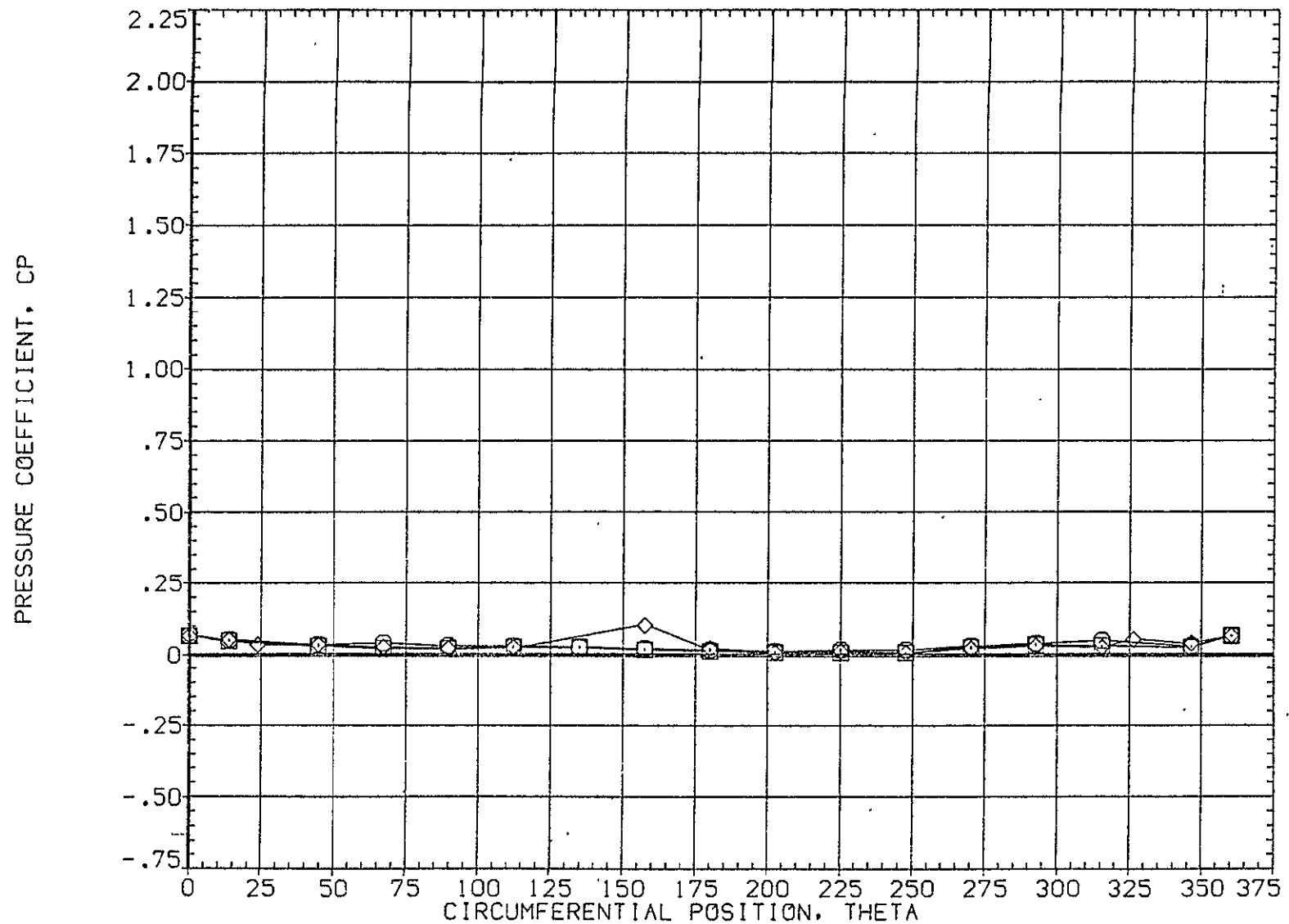


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-8.310	4.960	.000		.000
□	.923			1.000	PHI	315.000
◇	.954					

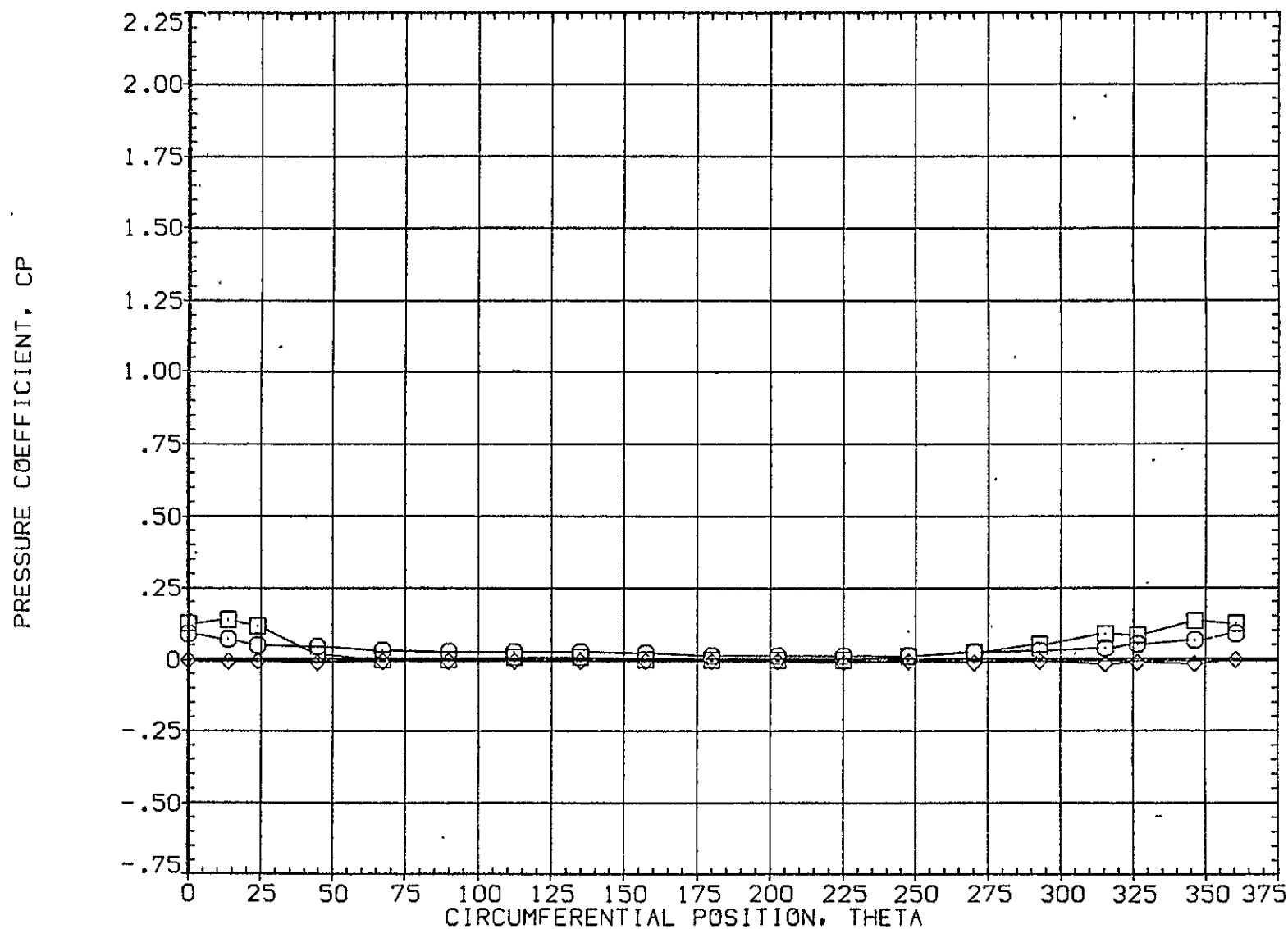


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	.000
○	.055	-4.290	4.960	MOUNT	.000	PHI	315.000
□	.108				1.000		
◇	.162						

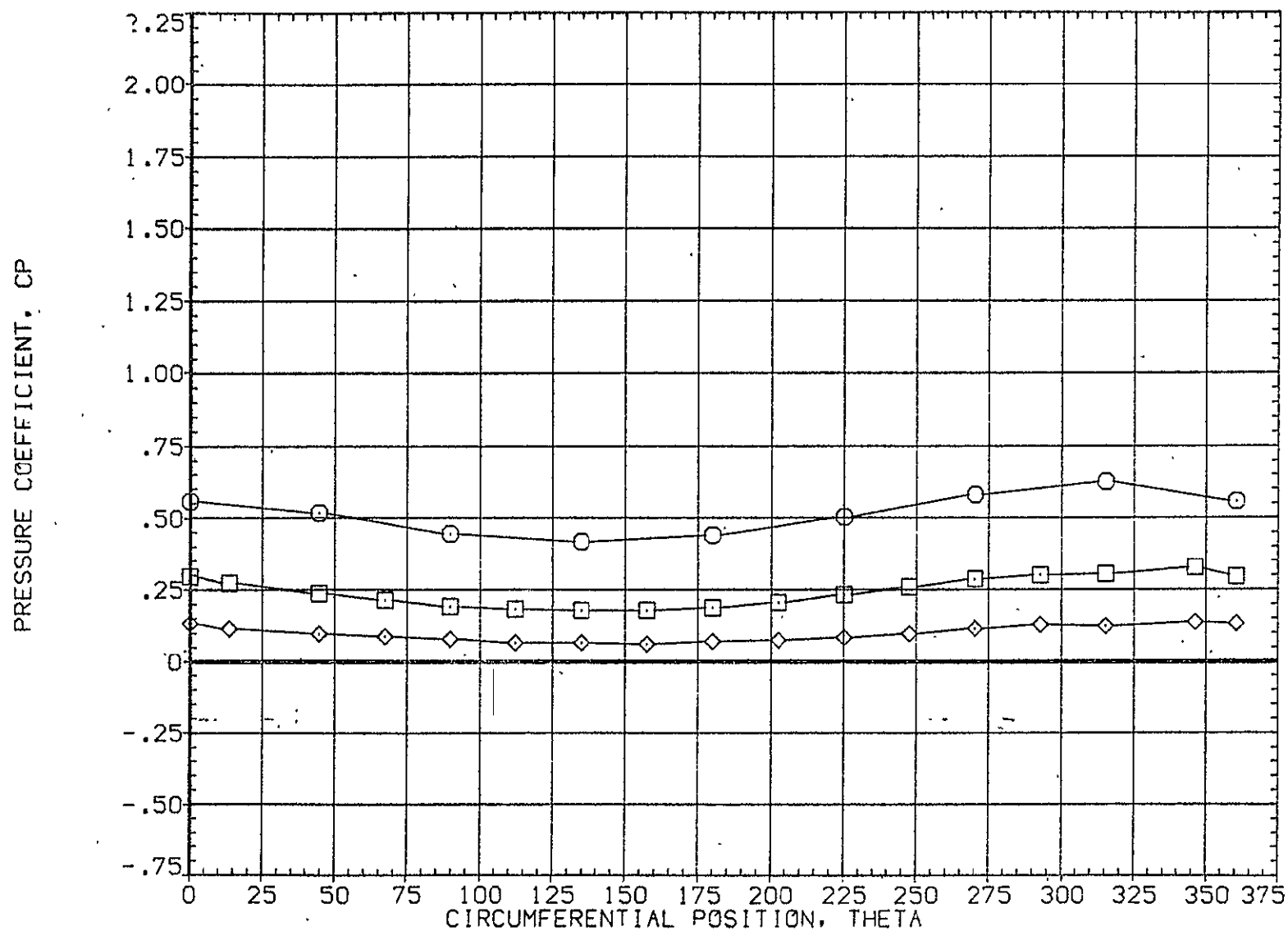


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	-4.290	4.960	.000	.000	.000
□	.322			1.000	PHI	315.000
◇	.518					

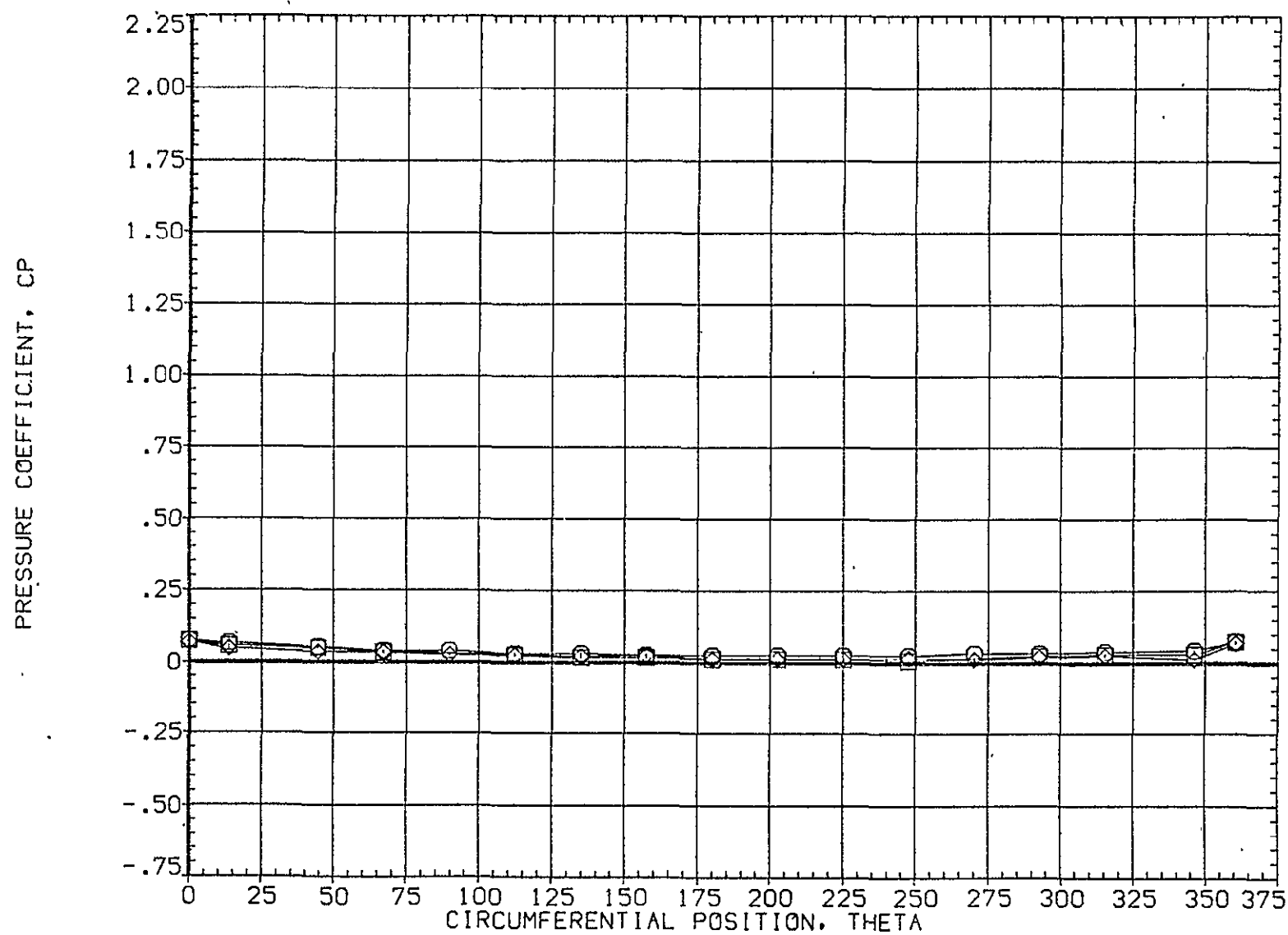


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A092)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	
○	.610	-4.290	4.960	MOUNT	1.000	PHI	315.000
□	.735						
◇	.860						

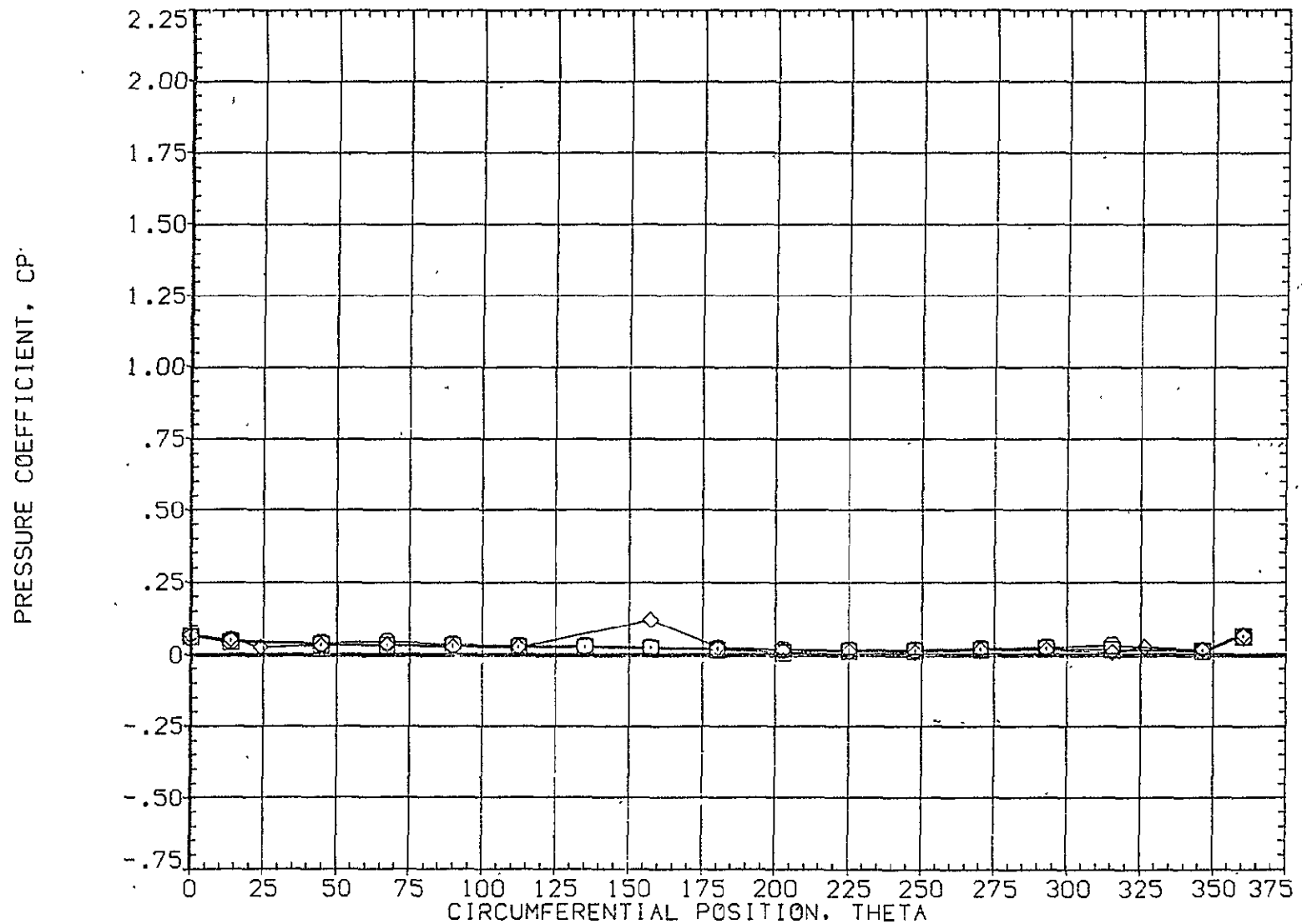


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	-4.290	4.960	.000	.000	.000
□	.923			1.000	PHI	315.000
◇	.954					

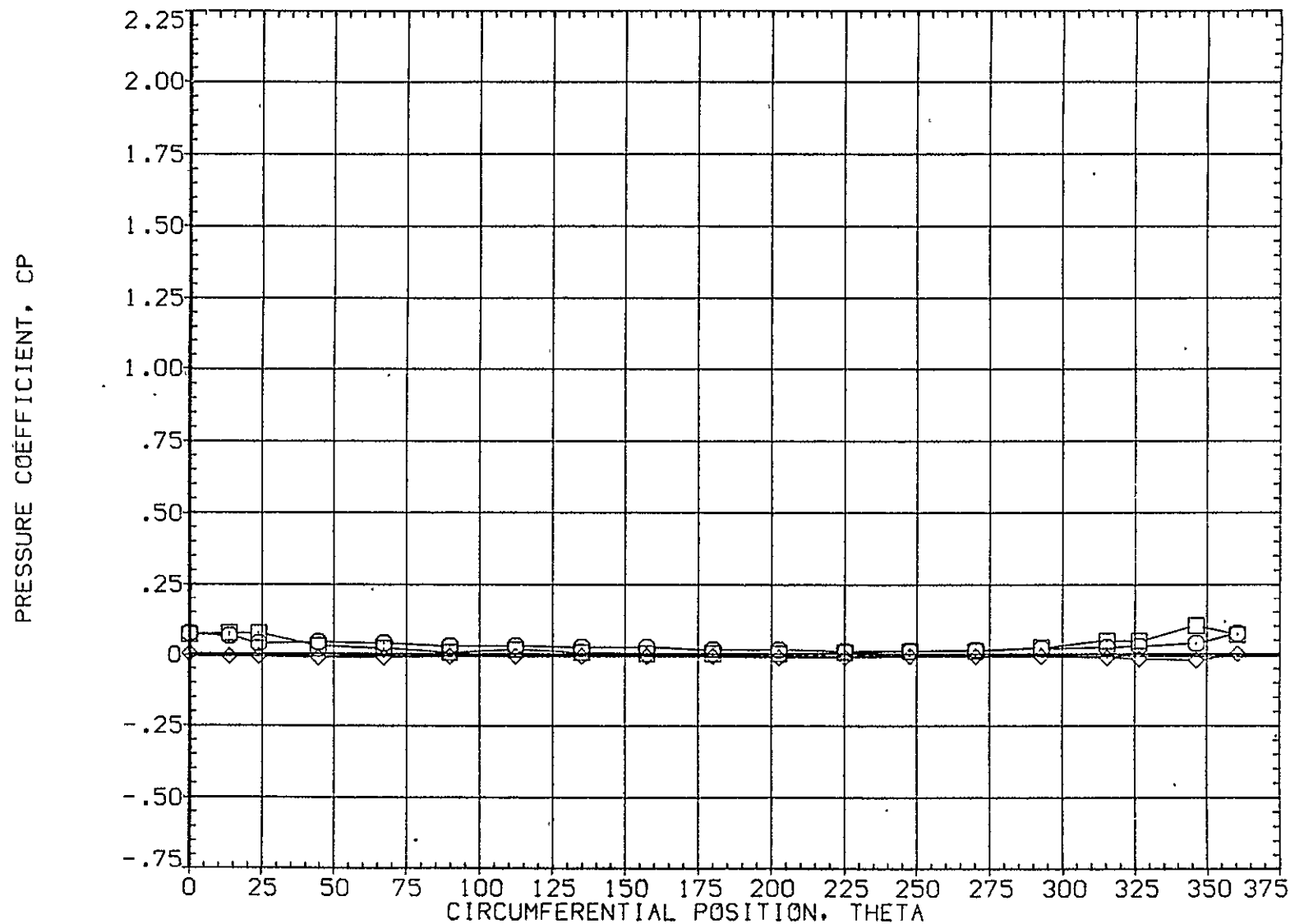


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A093)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.055	-.280	4.960	.000		.000
□	.108			1.000	PHI	315.000
◇	.162					

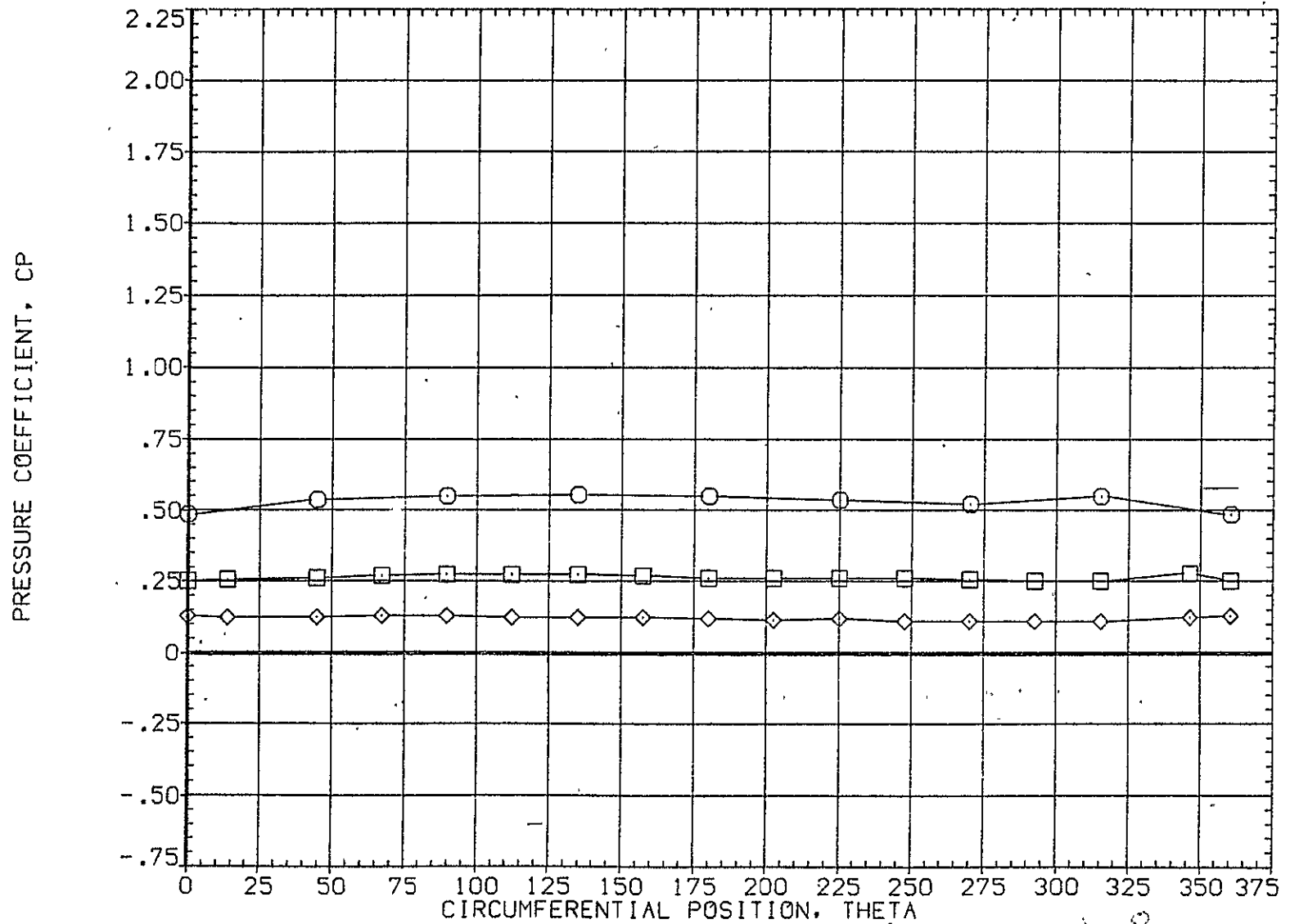


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES.

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

○
□
◇.216
.322
.518

-.280

4.960

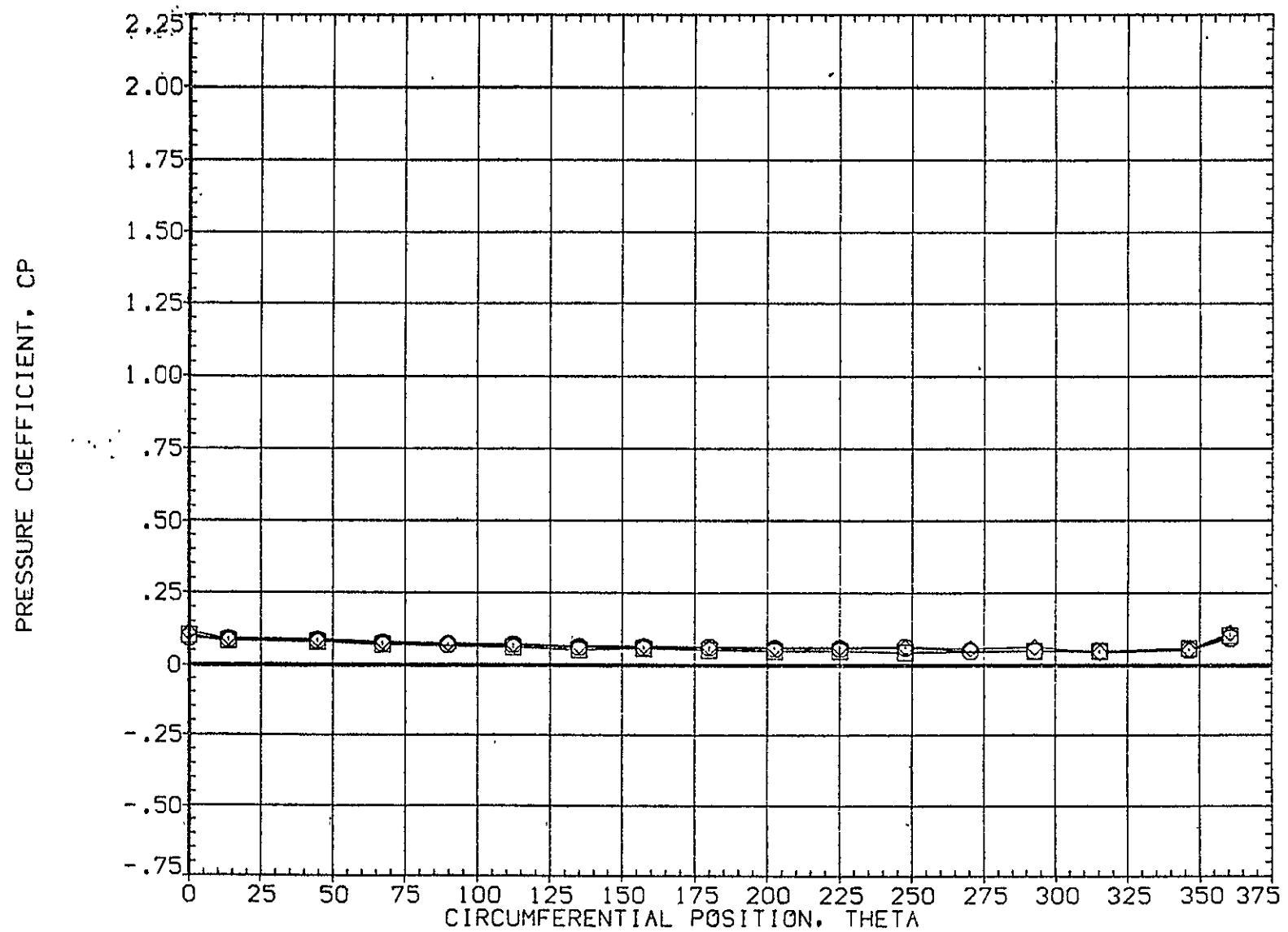
BETA
MOUNT.000
1.000OFFSET
PHI.000
315.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCRO200 EXTERNAL TANK, T1

(PIA093)

SYMBOL	X/LB	ALPHA	MACH
○	.610	-.280	4.960
□	.735		
◇	.860		

PARAMETRIC VALUES			
BETA	.000	OFFSET	.000
MOUNT	1.000	PHI	315.000

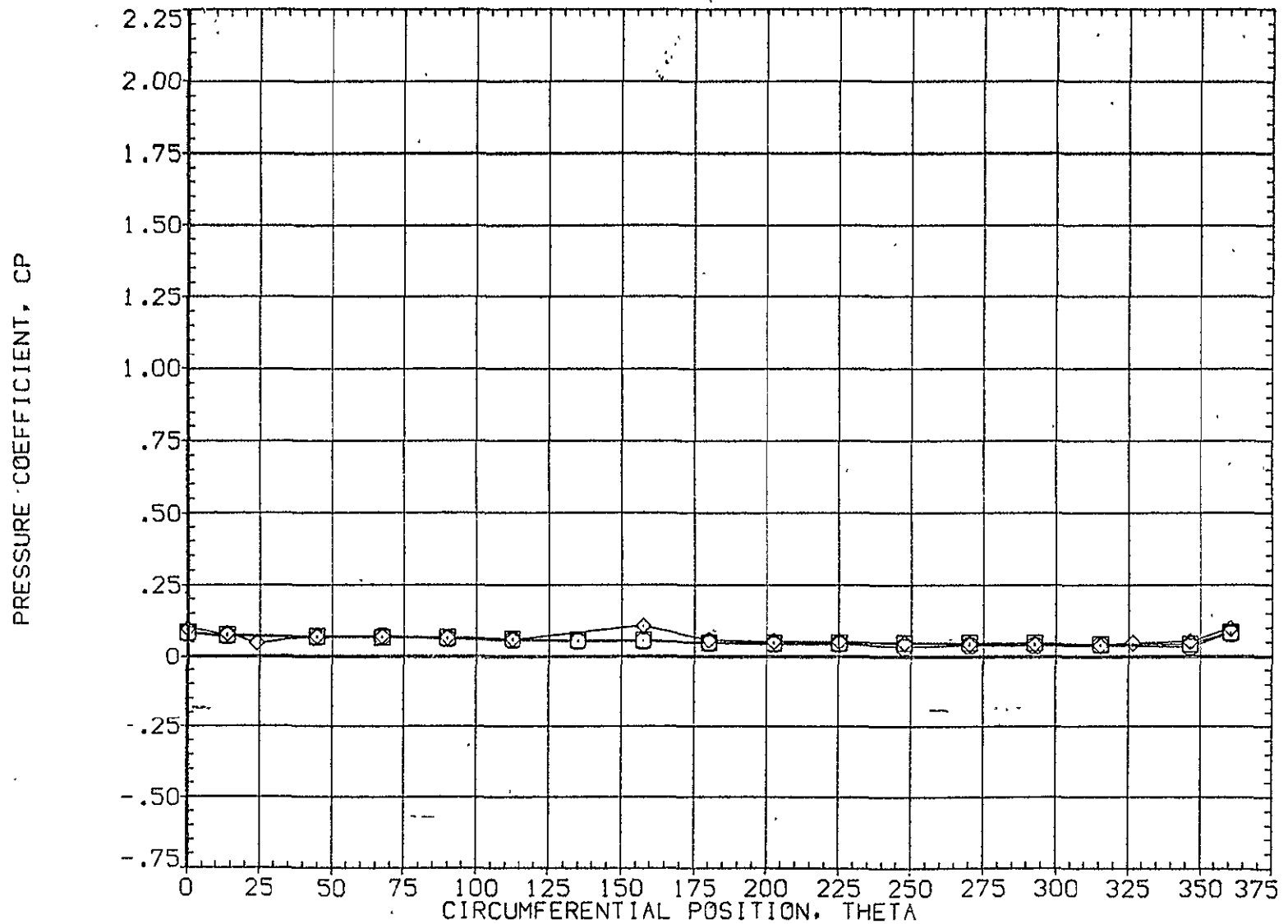


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	PHI
○	.892	-.280	4.960	.000		.000	
□	.923			1.000			315.000
◇	.954						

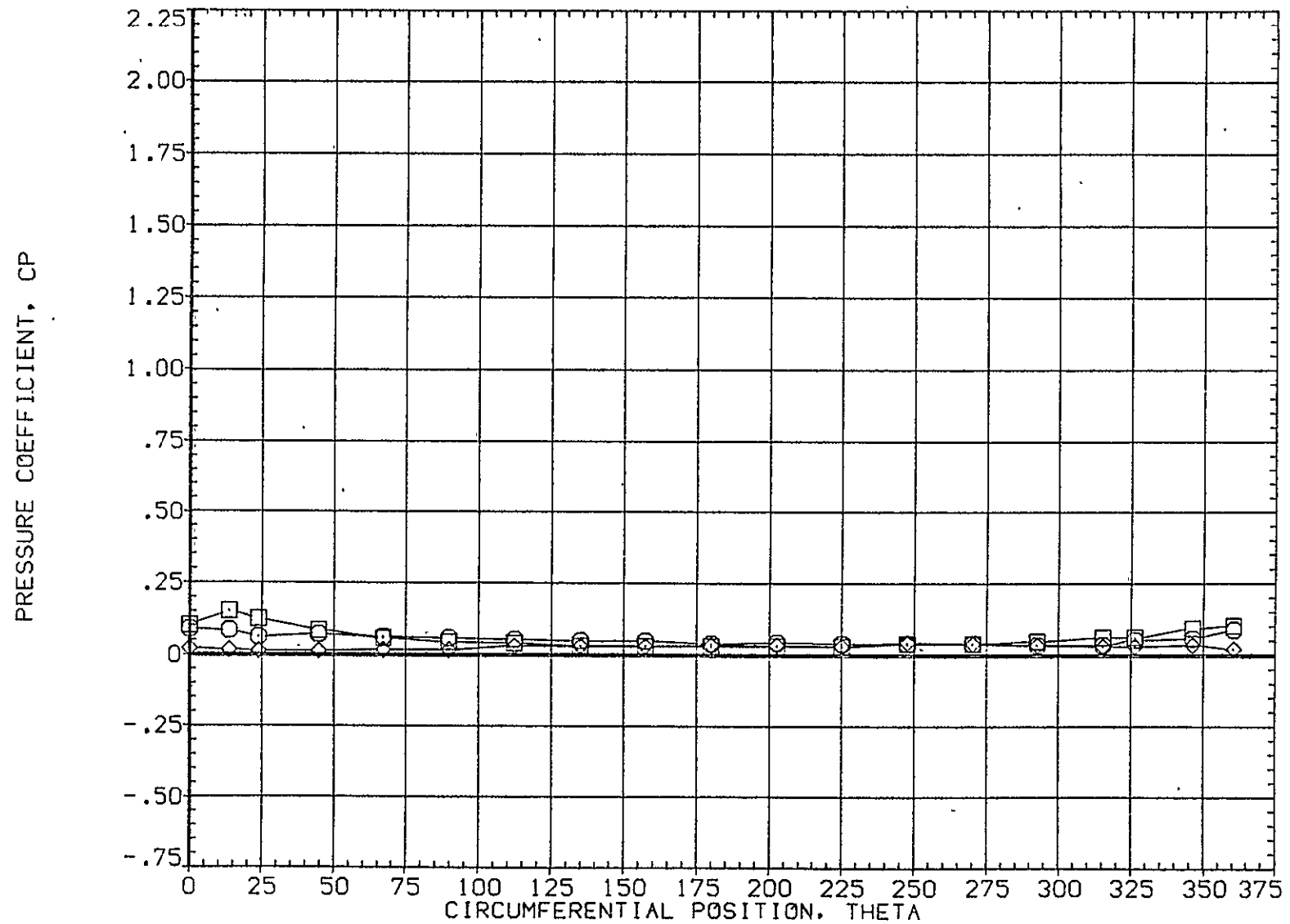


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.055	3.730	4.960	Mount	1.000		.000
□	.108						315.000
◇	.162						

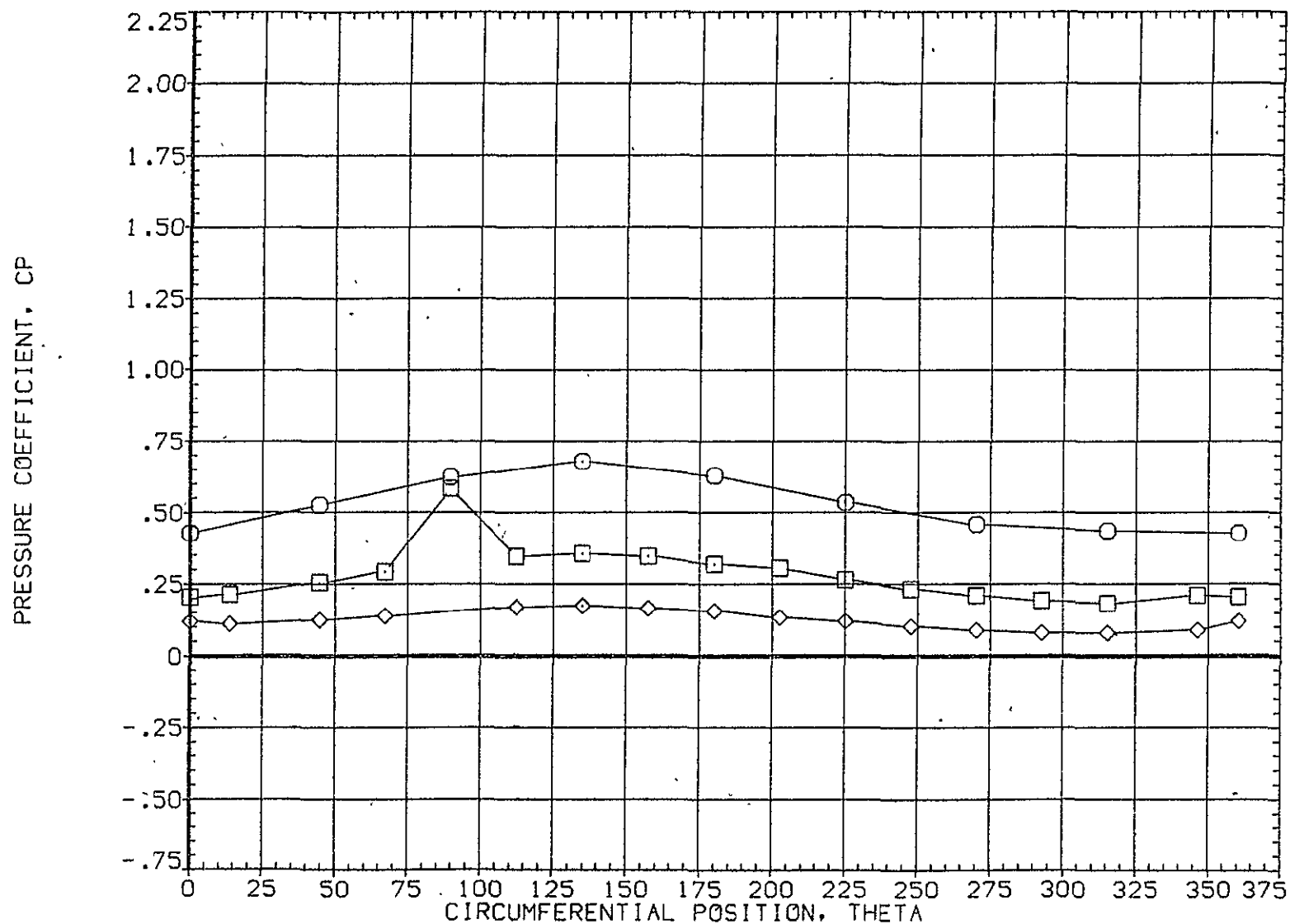


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.216	3.730	4.980	.000		.000
□	.322			1.000	PHI	315.000
◇	.518					

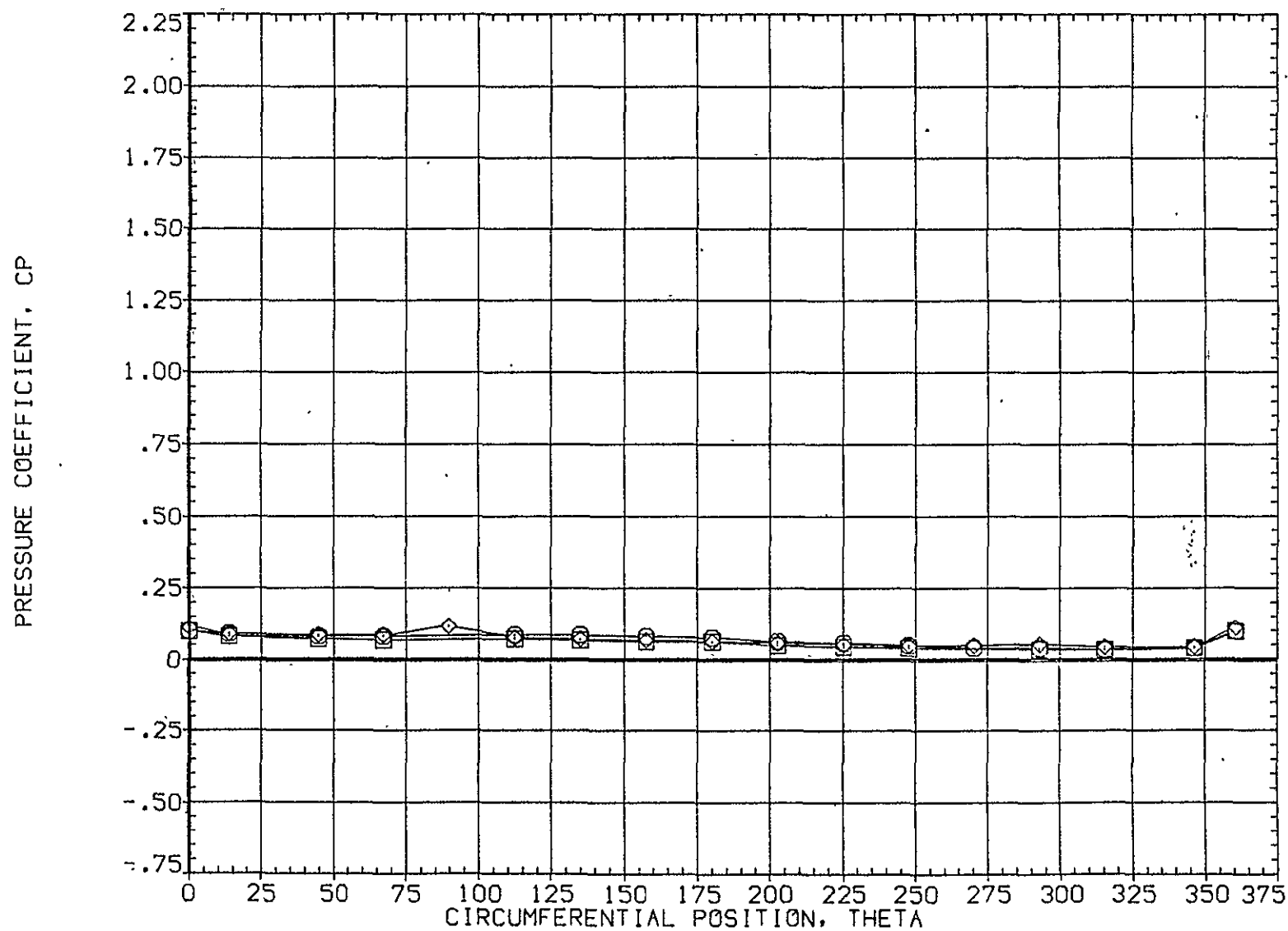


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL.	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	.000
○	.610	3.730	4.960	MOUNT	1.000	PHI 315.000
□	.735					
◇	.860					

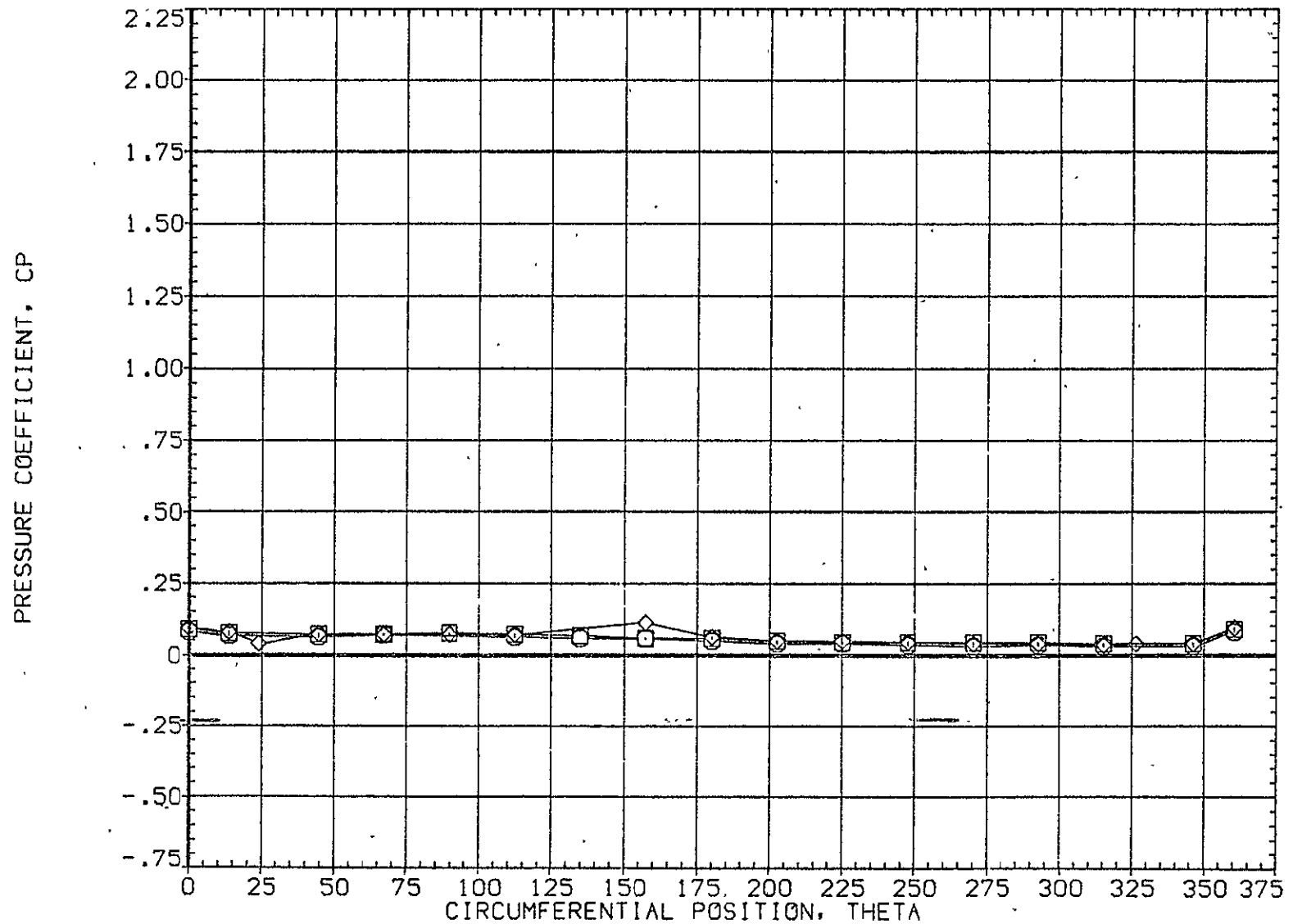


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	3.730	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES		
BETA	.000	OFFSET
MOUNT	1.000	PHI
		315.000

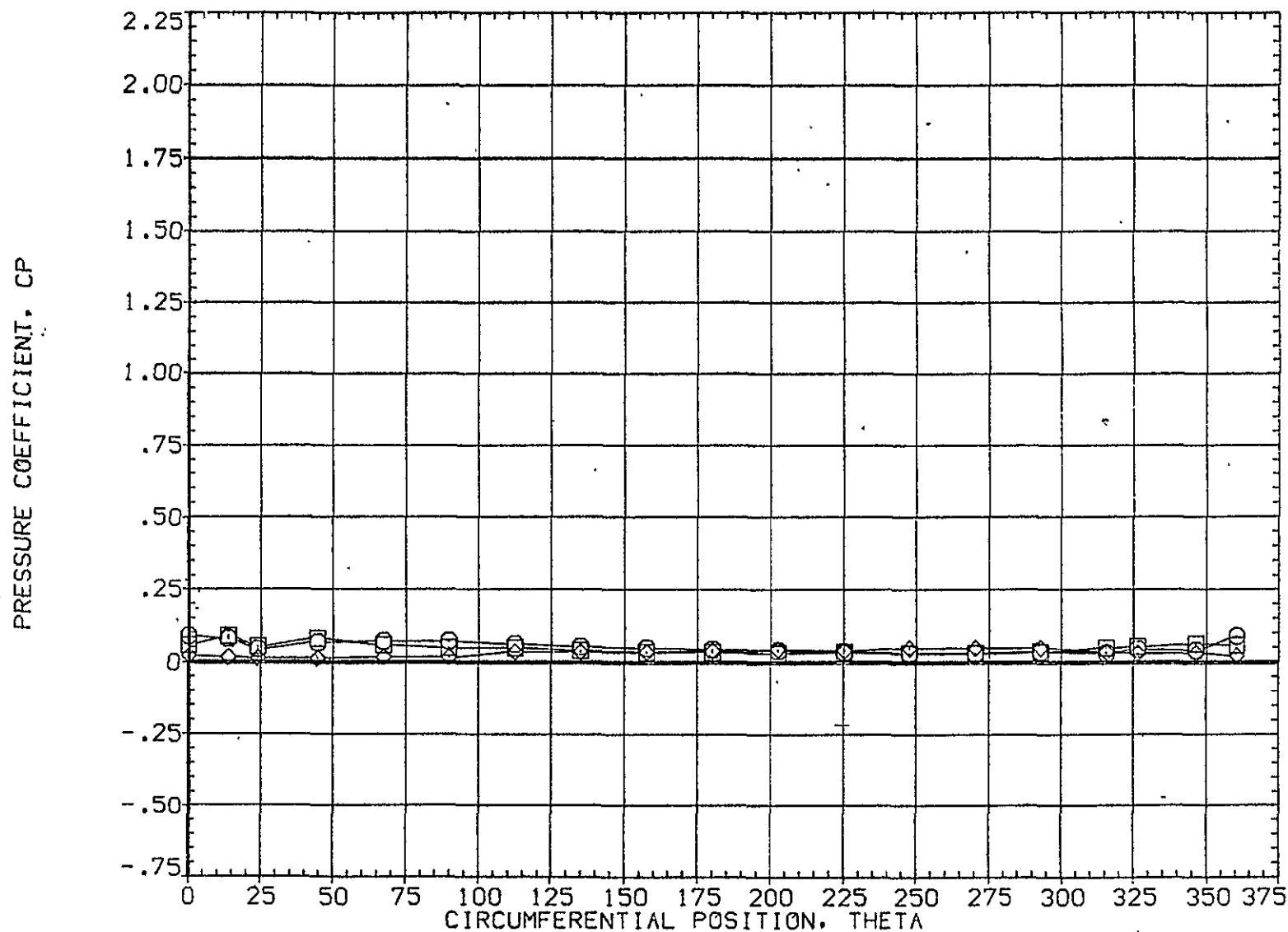


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	.000 315.000
○	.055	7.750	4.960			
□	.108					
◇	.162					

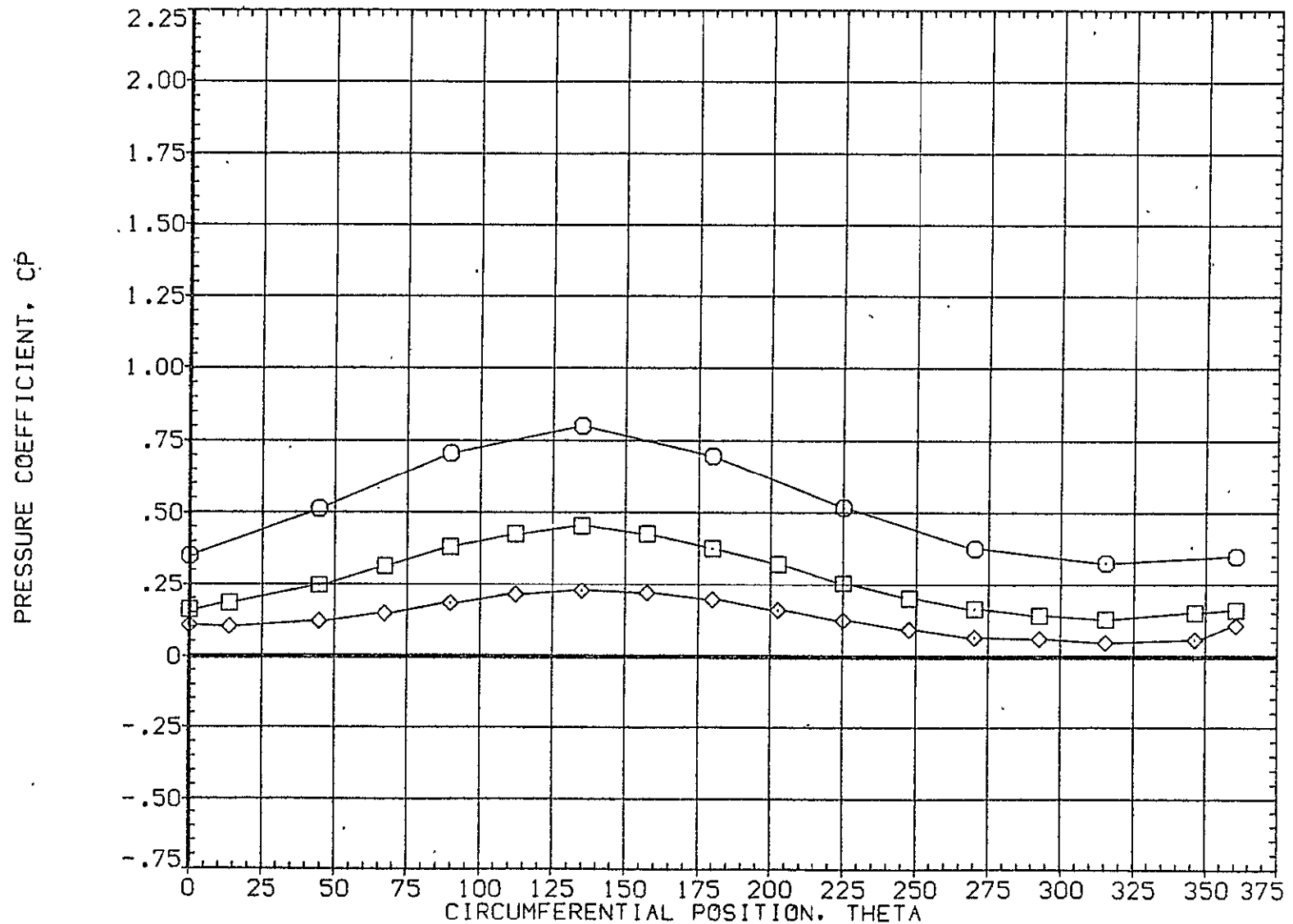


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES..		
				BETA	OFFSET	
				MOUNT	PHI	
○	.216	7.750	4.960		.000	.000
□	.322					
◇	.518					315.000

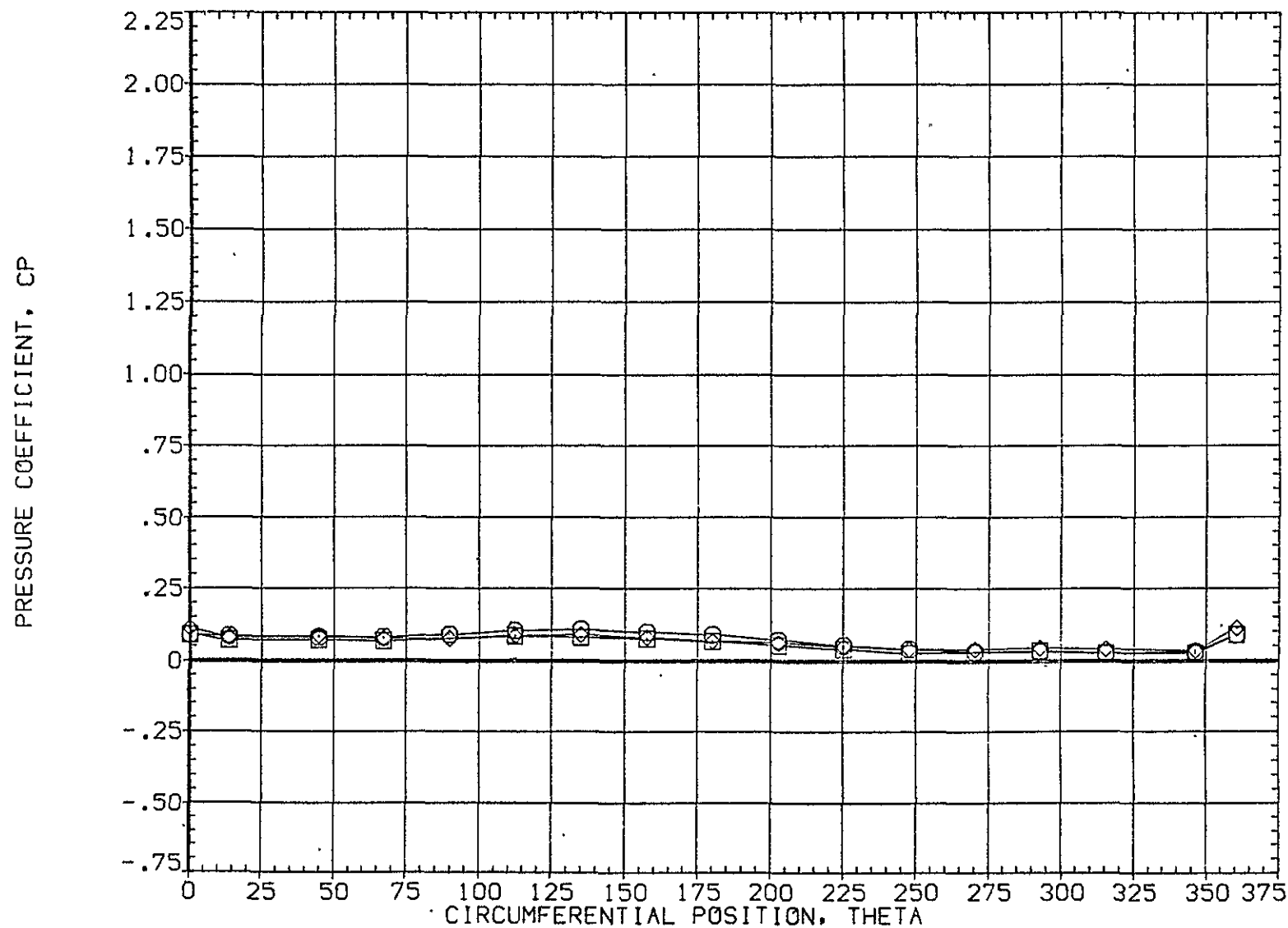


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1 (P1A095)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
○	.610	7.750	4.960	.000	OFFSET .000
□	.735			1.000	PHI 315.000
◇	.860				

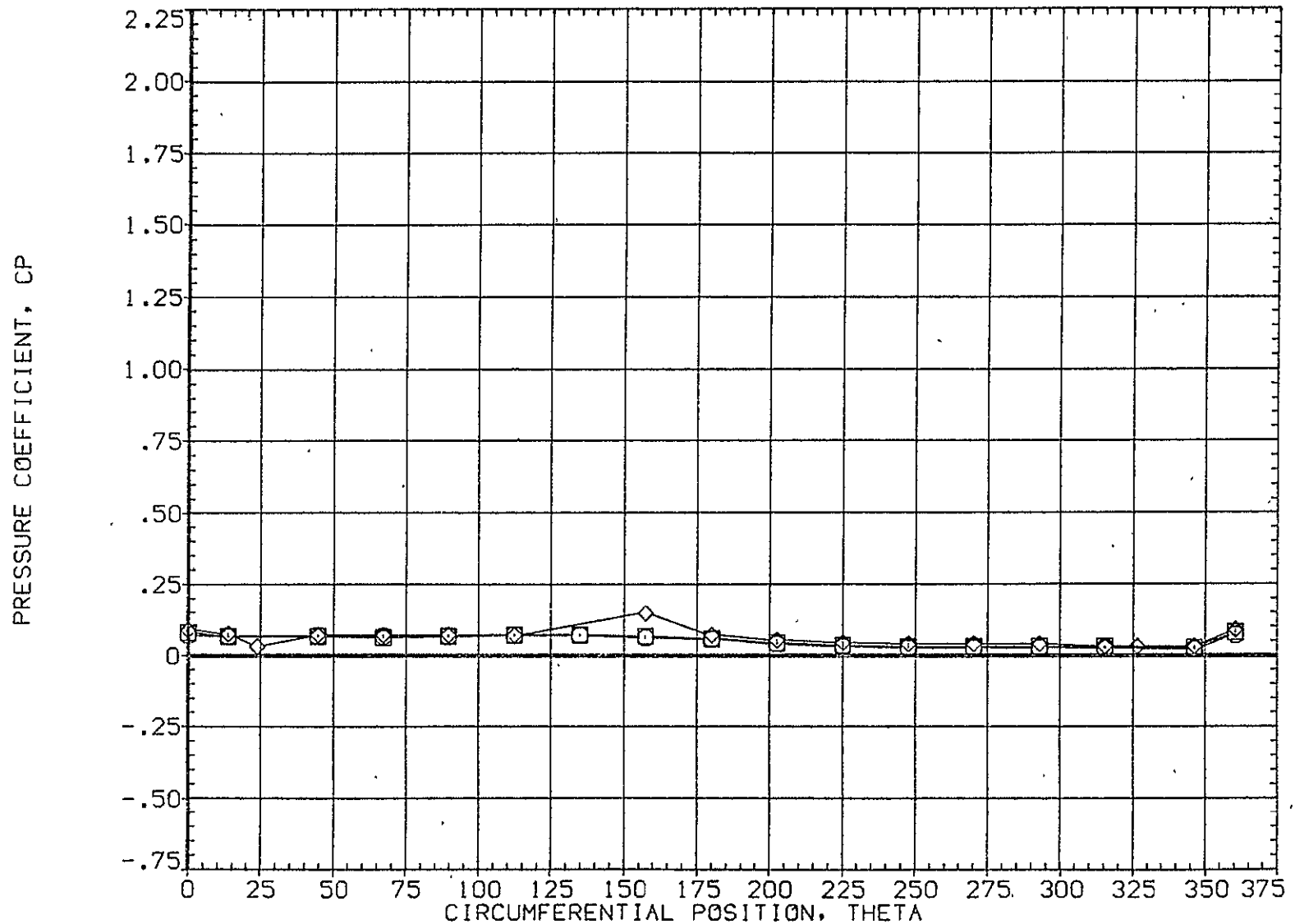


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL

X/LB

ALPHA

MACH

PARAMETRIC VALUES

BETA
MOUNT.000
1.000OFFSET
PHI.000
315.000

PRESSURE COEFFICIENT, CP

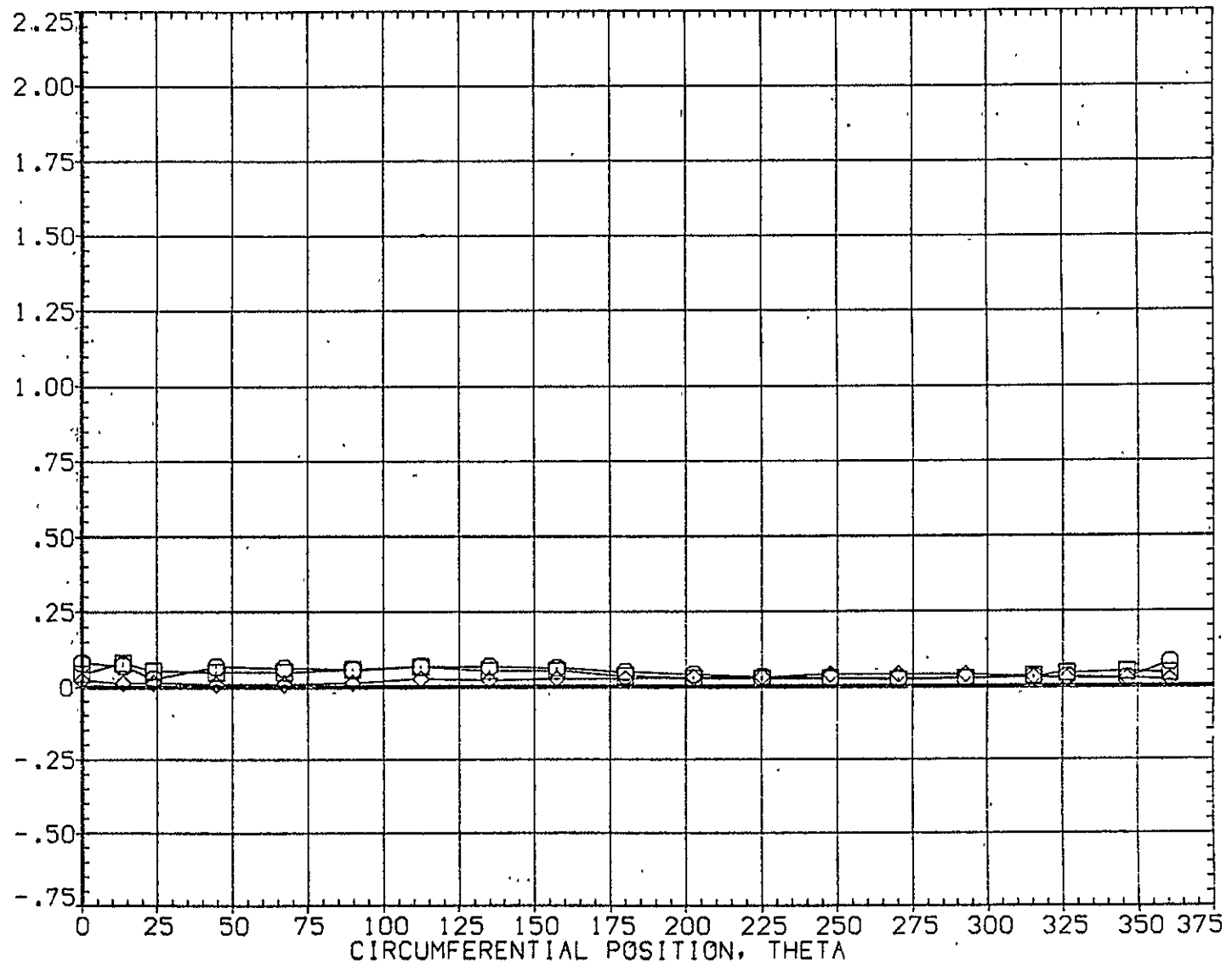


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
○	.055	12.430	4.960	MOUNT	1.000	PHI 315.000
□	.108					
◇	.162					

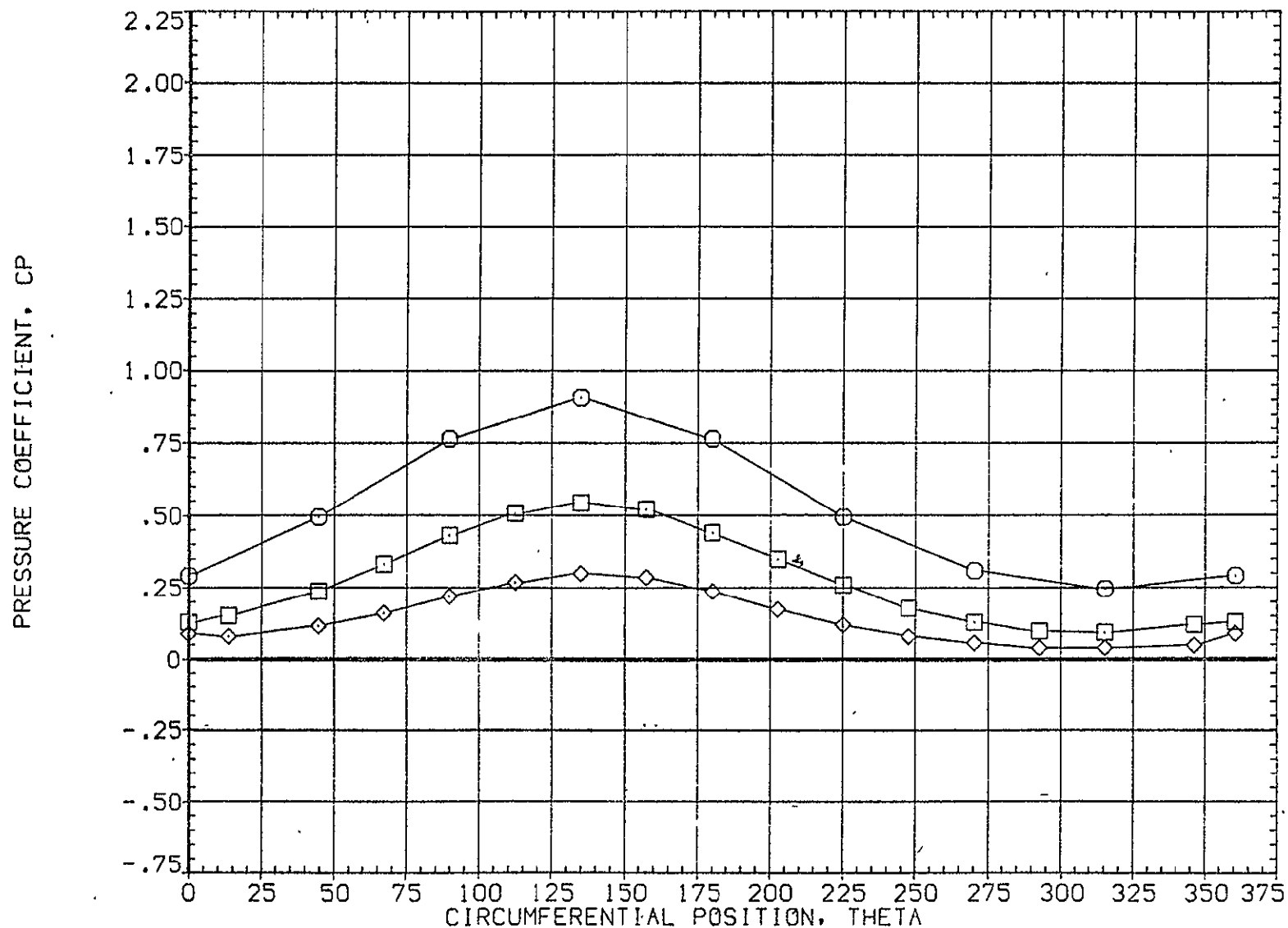


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	12.430	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	315.000

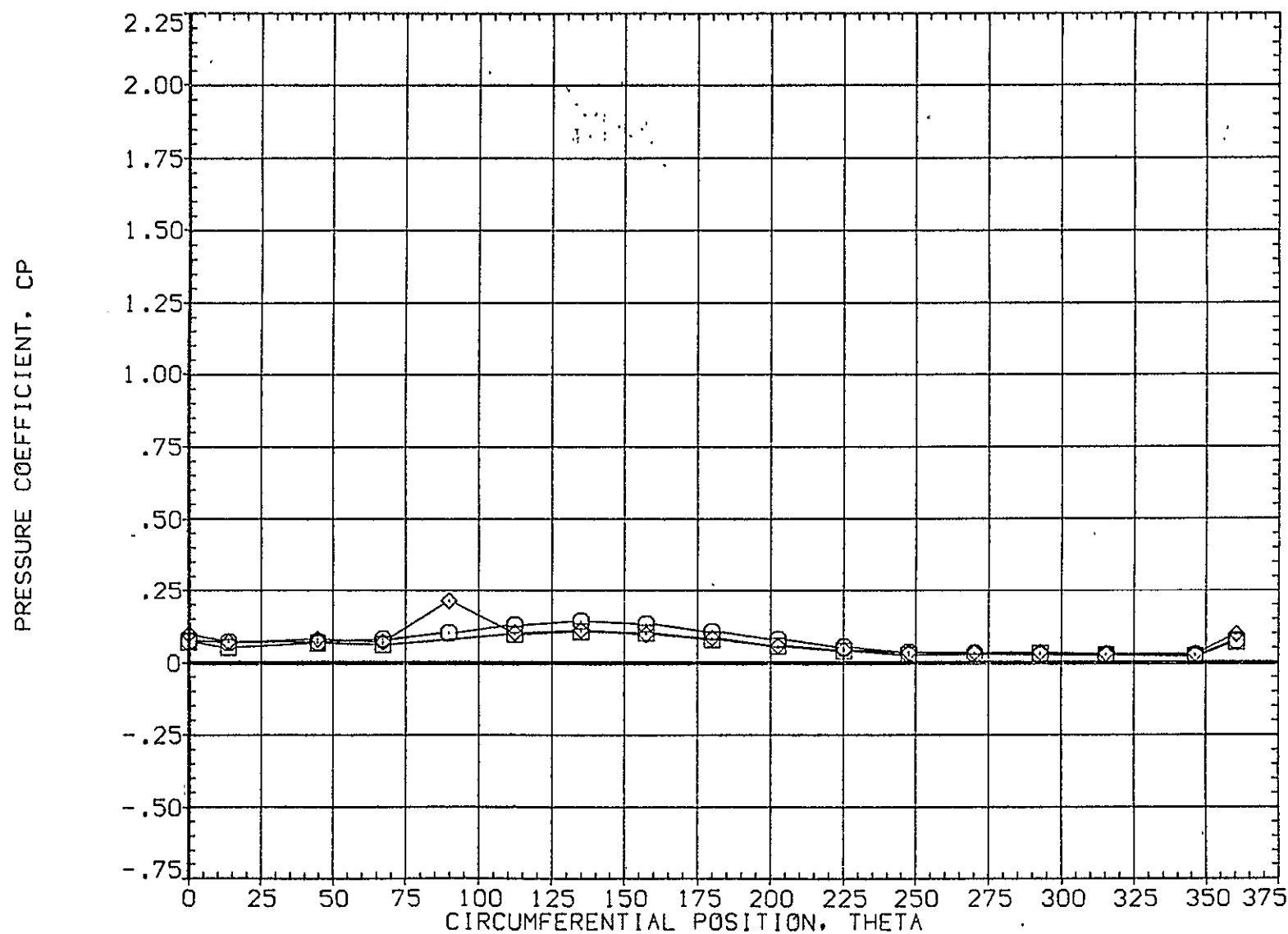


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A096)

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	12.430	4.960		.000		20.000
□	.735			MOUNT	1.000		315.000
◇	.860						

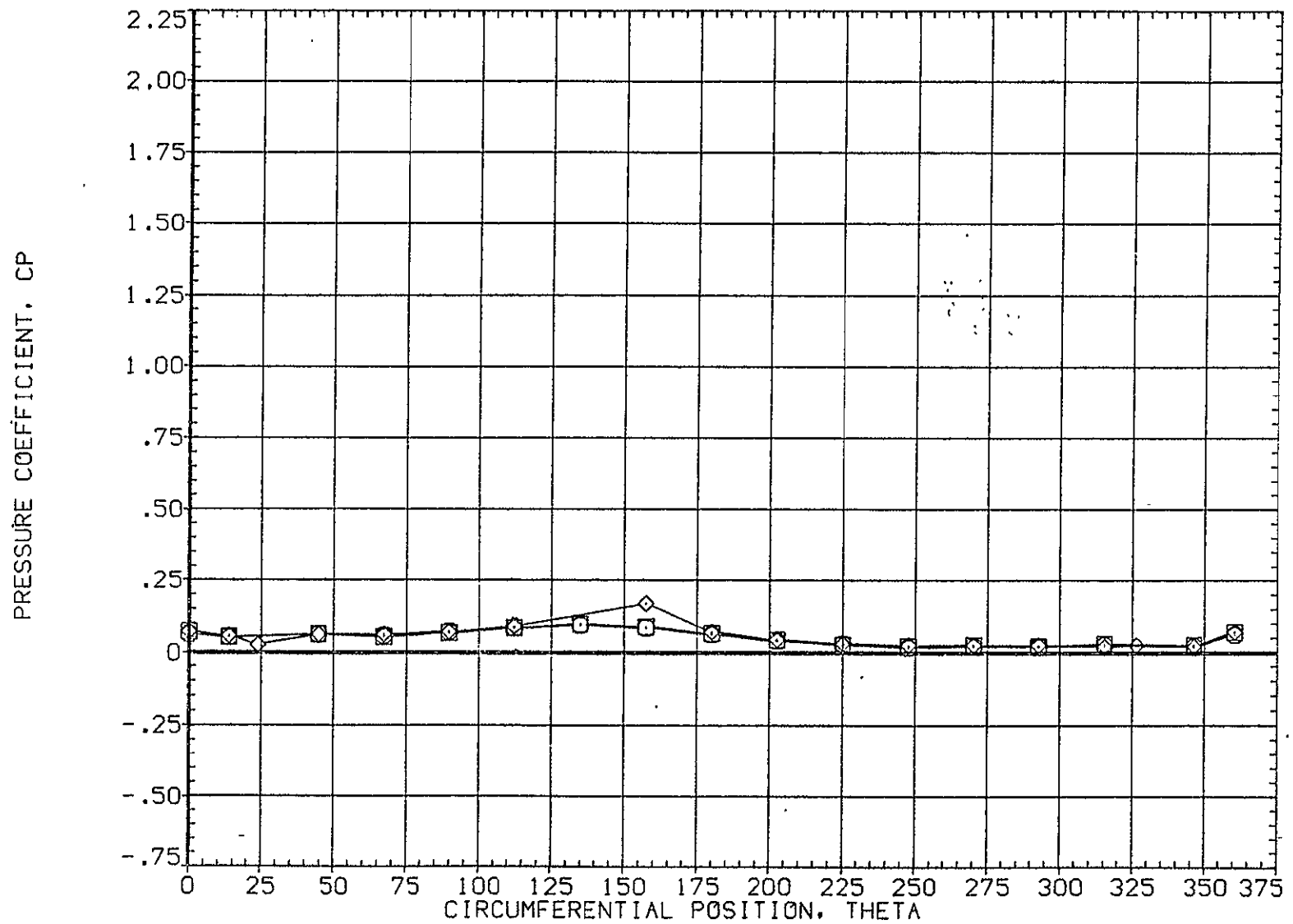


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	20.000
				MOUNT	PHI	315.000
○	.892	12.430	4.960			
□	.923					
◇	.954					

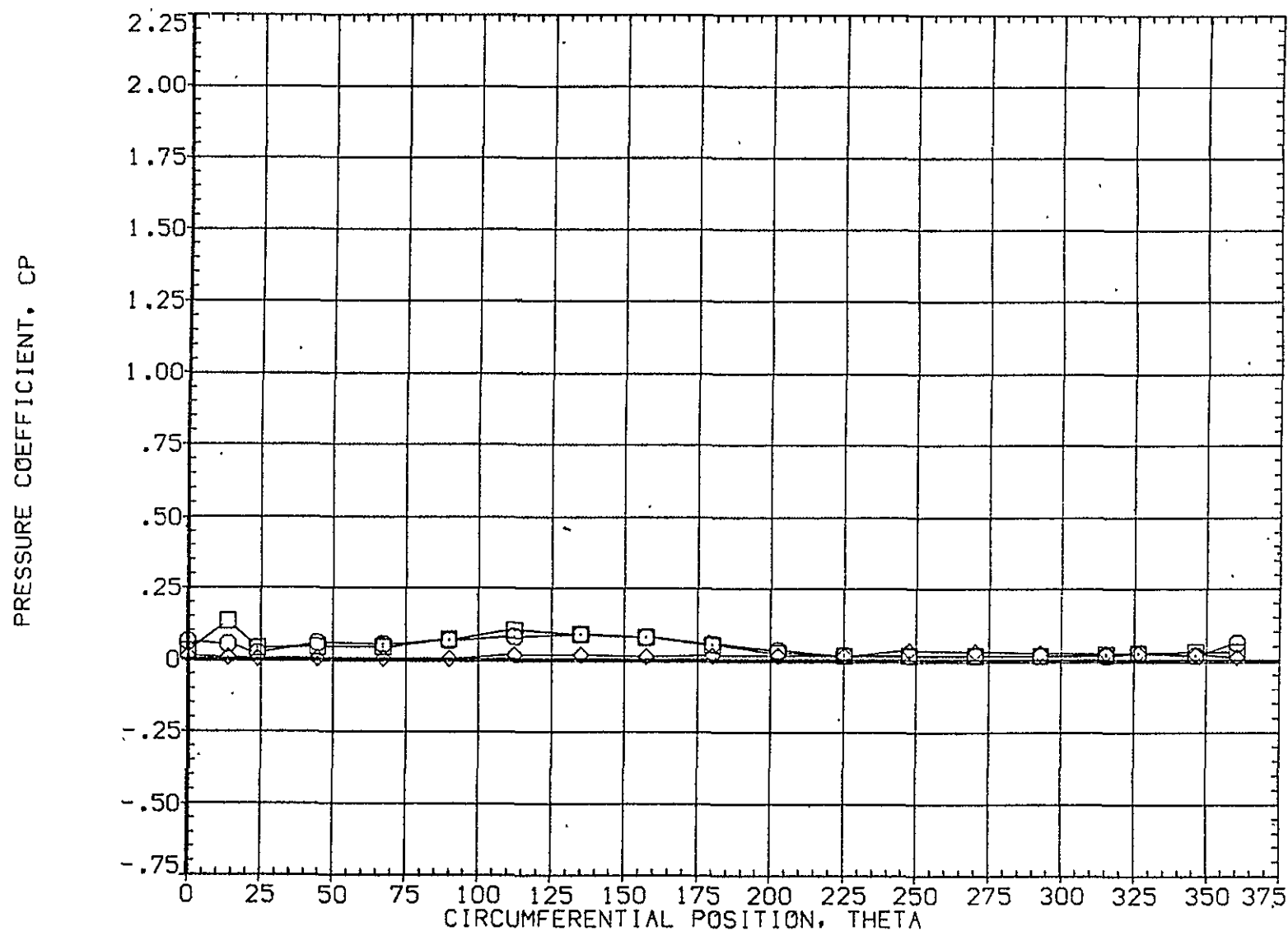


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A097)

SYMBOL	X/LB	ALPHA	MACH
○	.055	16.470	4.960
□	.108		
◇	.162		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	315.000

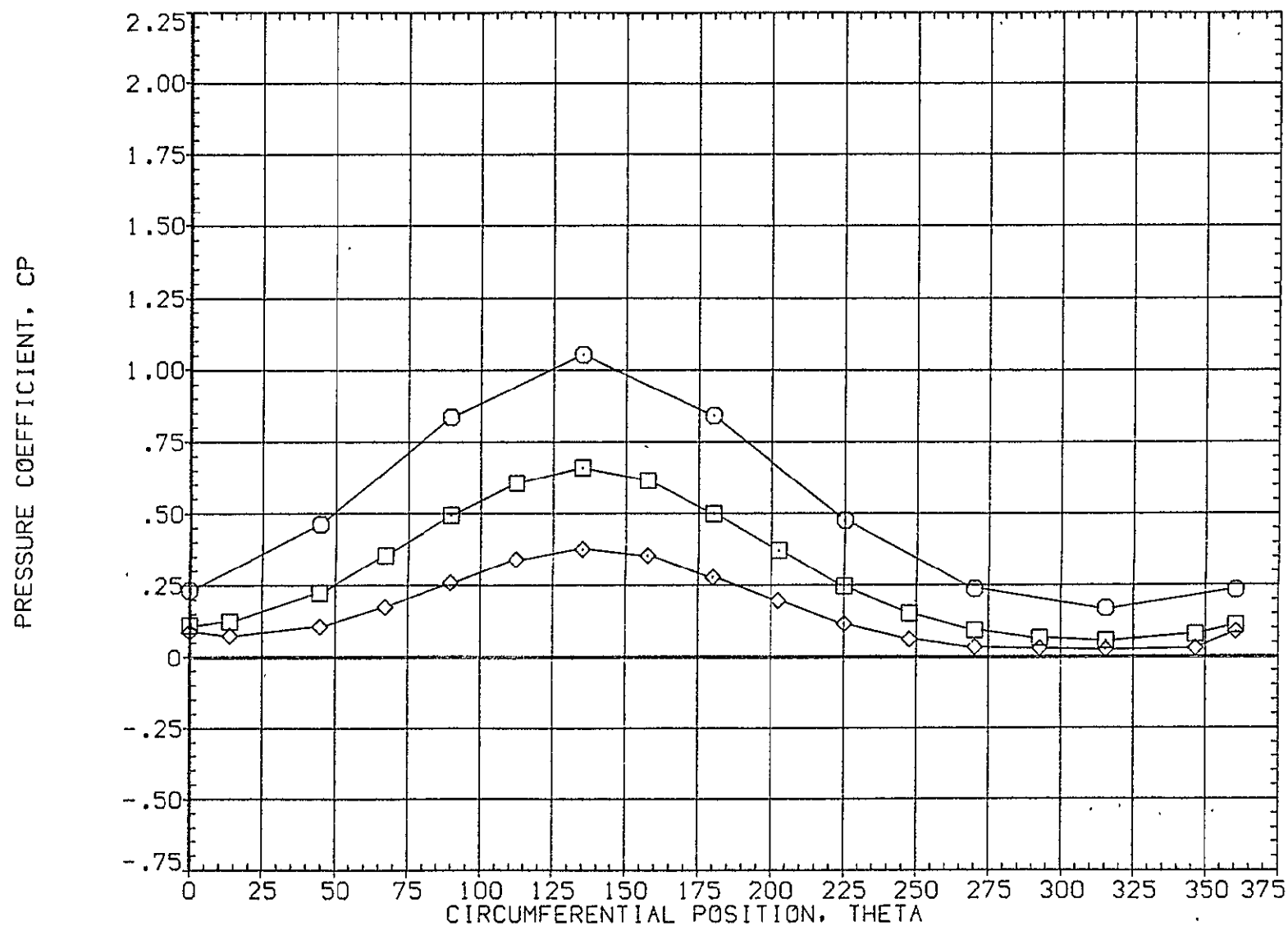


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
○	.216	16.470	4.960	BETA	.000	OFFSET 20.000
□	.322			MOUNT	1.000	PHI 315.000
◇	.518					

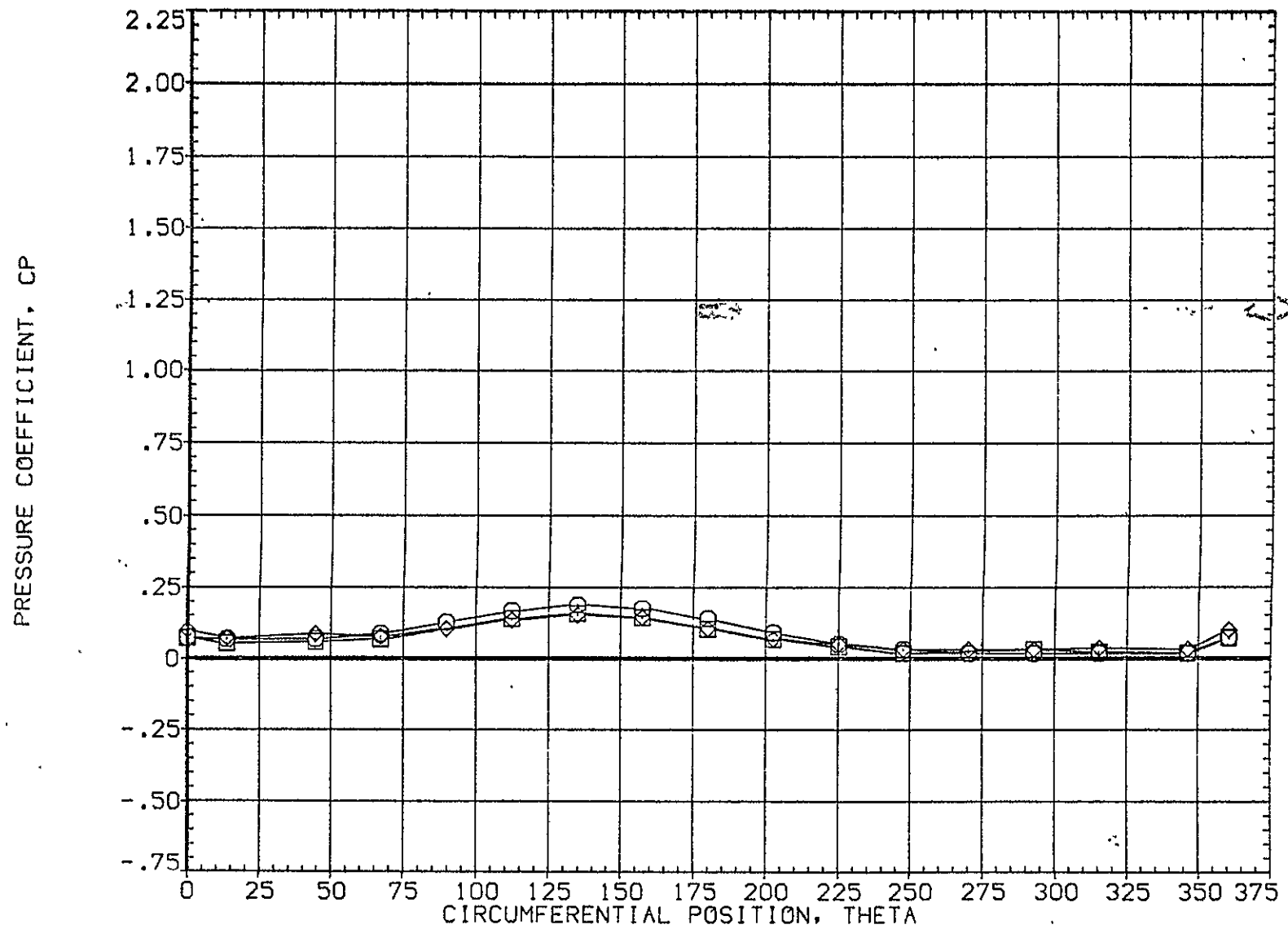


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	OFFSET	PHI	
○	.610	16.470	4.960	.000			20.000
□	.735			1.000			315.000
◇	.860						

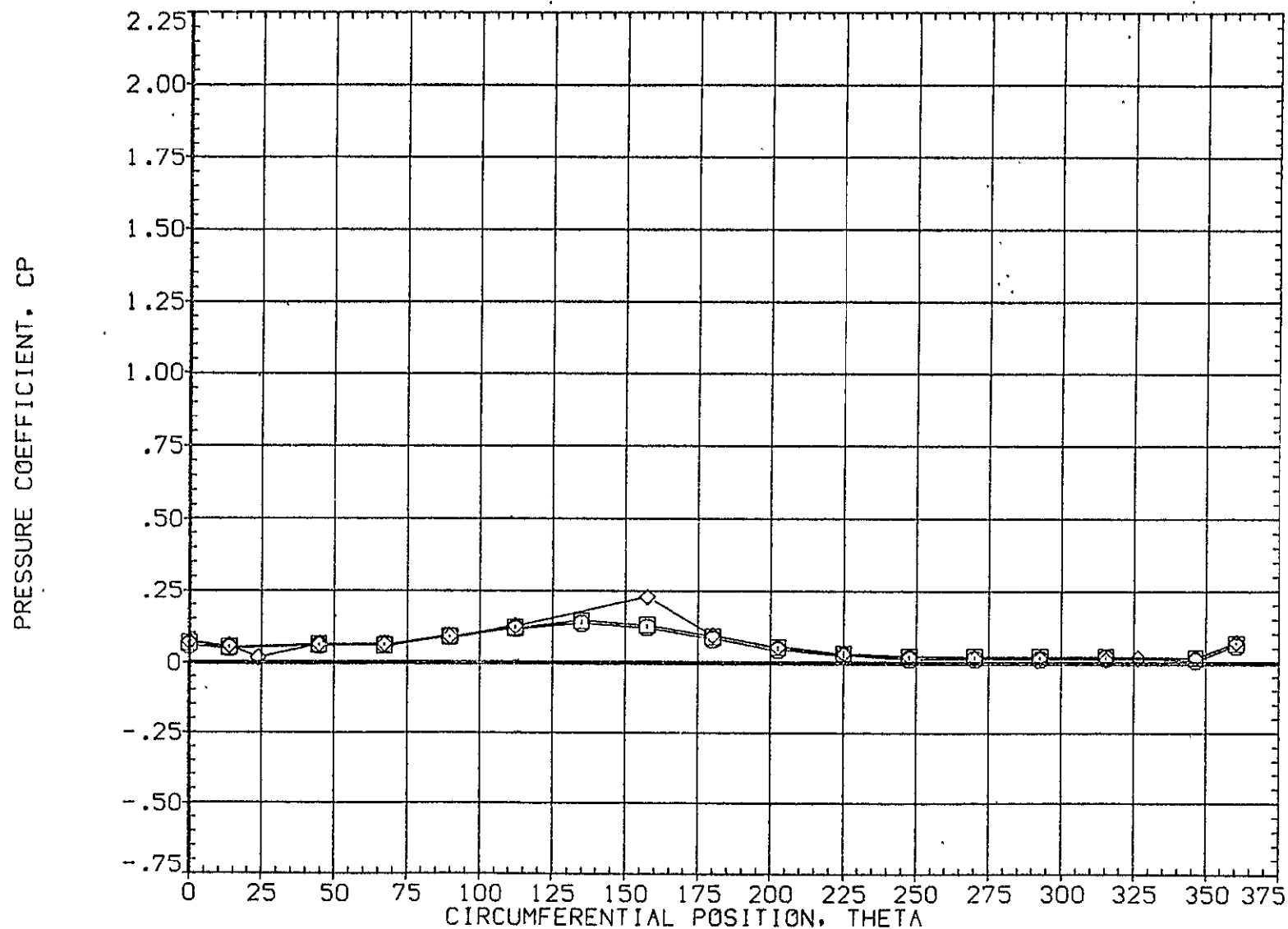


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
				MOUNT	PHI	
○	.892	16.470	4.960			20.000
□	.923					
◇	.954					315.000

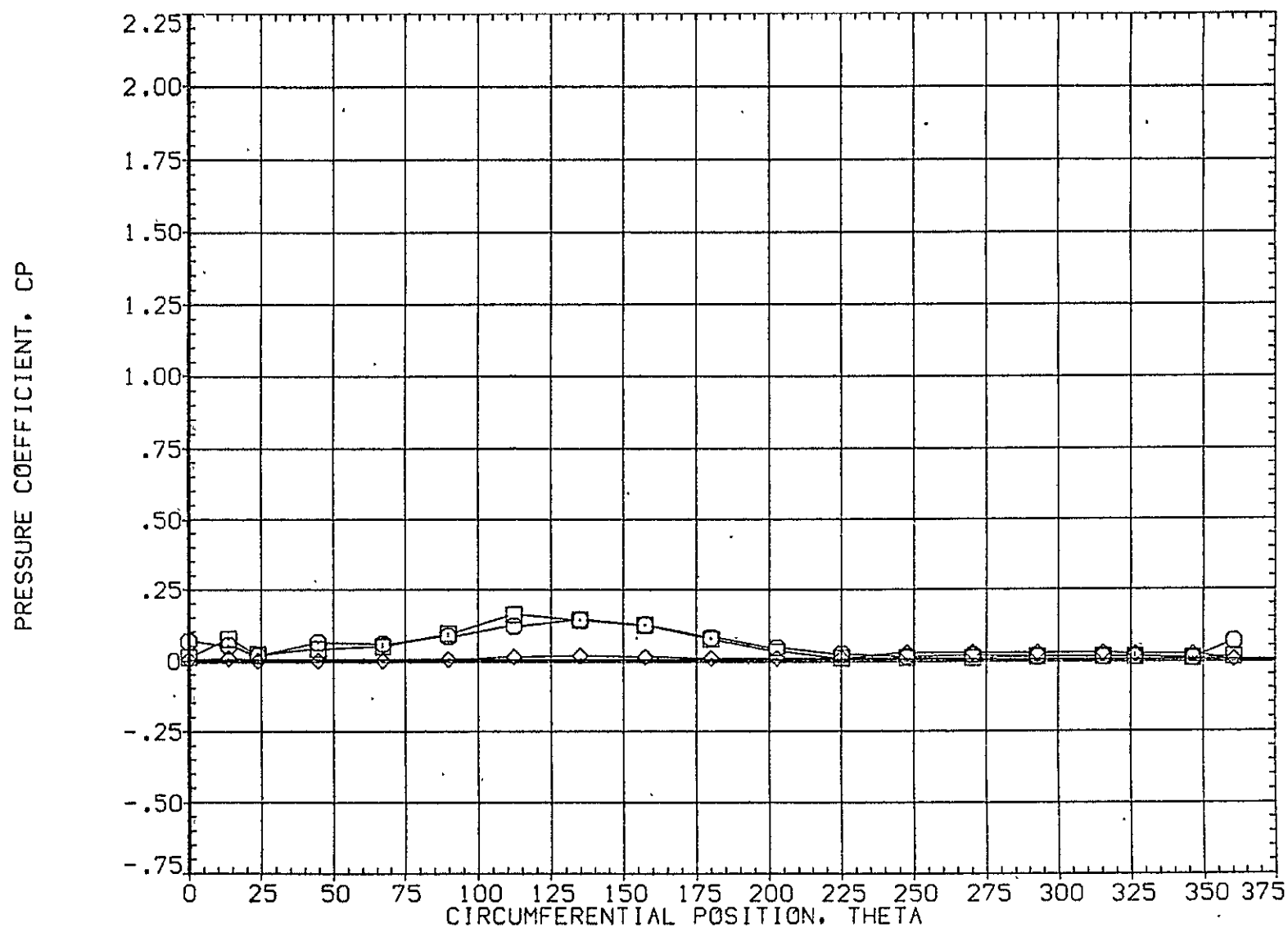


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA MOUNT	OFFSET PHI	20.000 315.000
○	.055	20.490	4.960			
□	.108					
◇	.162					

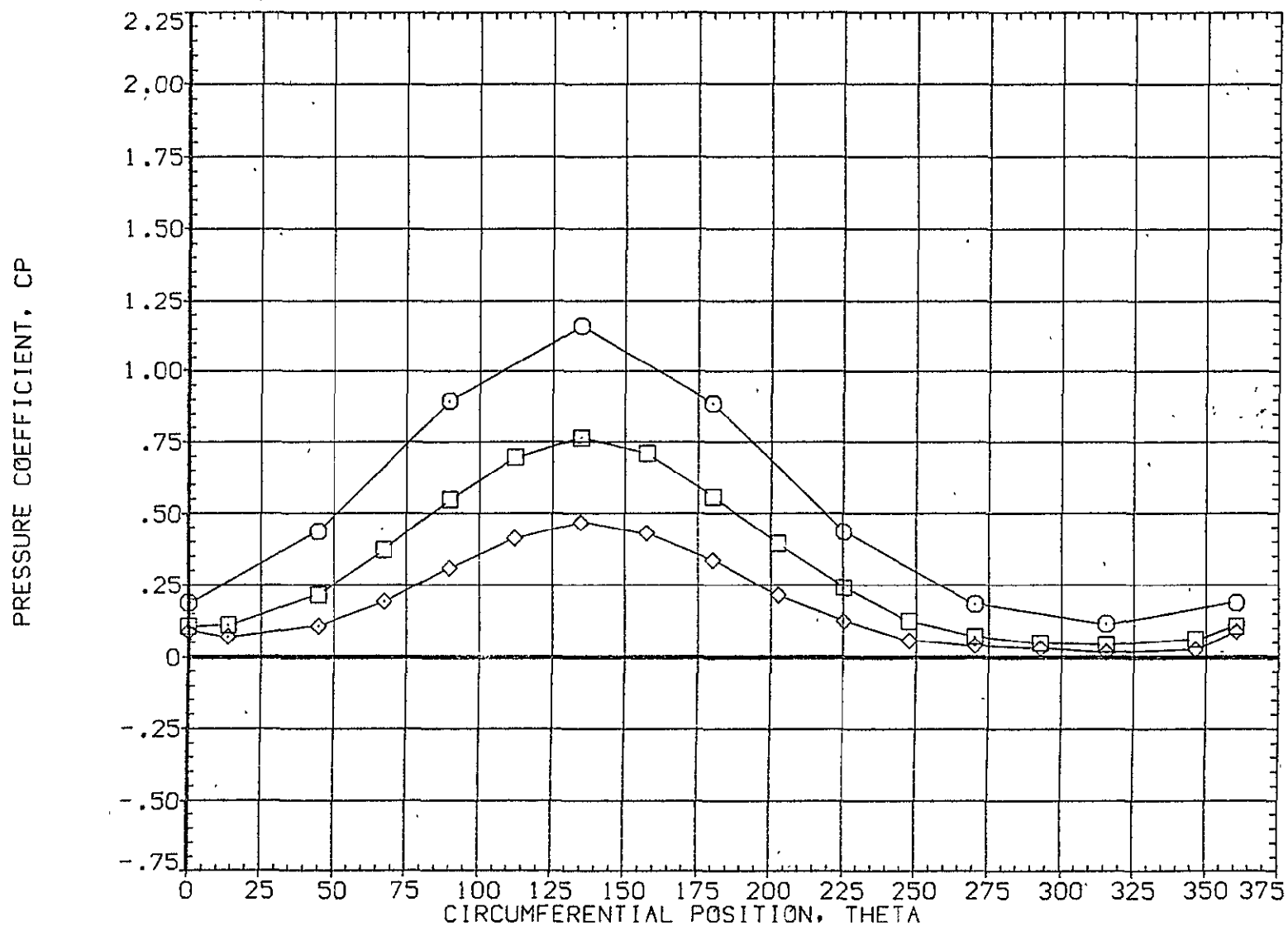


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	20.490	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
MOUNT	1.000	PHI 315.000

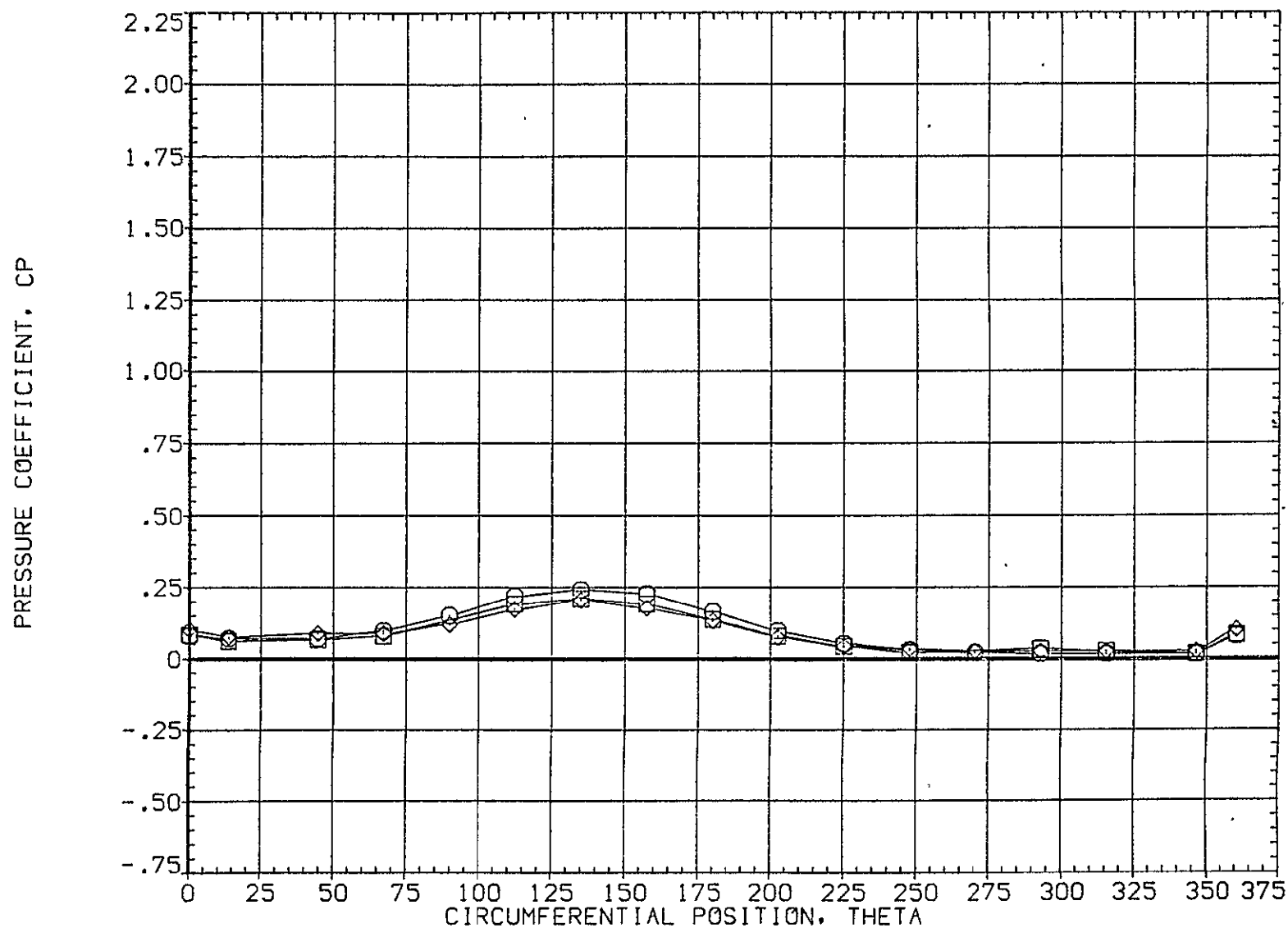


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A098)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES		
○	.610	20.490	4.960	MOUNT	.000	OFFSET	20.000
□	.735				1.000	PHI	315.000
◇	.860						

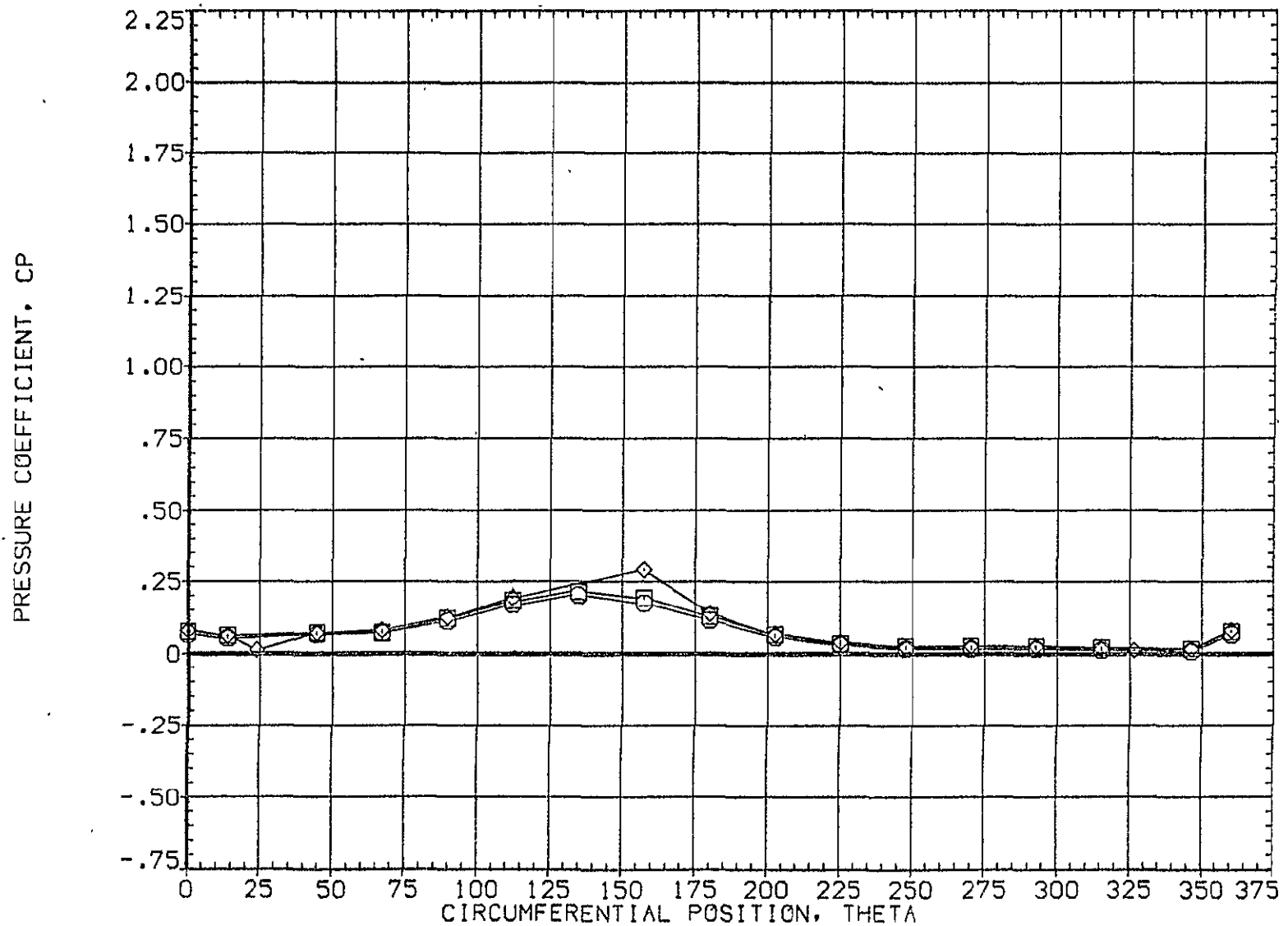


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES
◇	.892	20.490	4.960	.000	OFFSET 20.000
□	.923			1.000	PHI 315.000
○	.954				

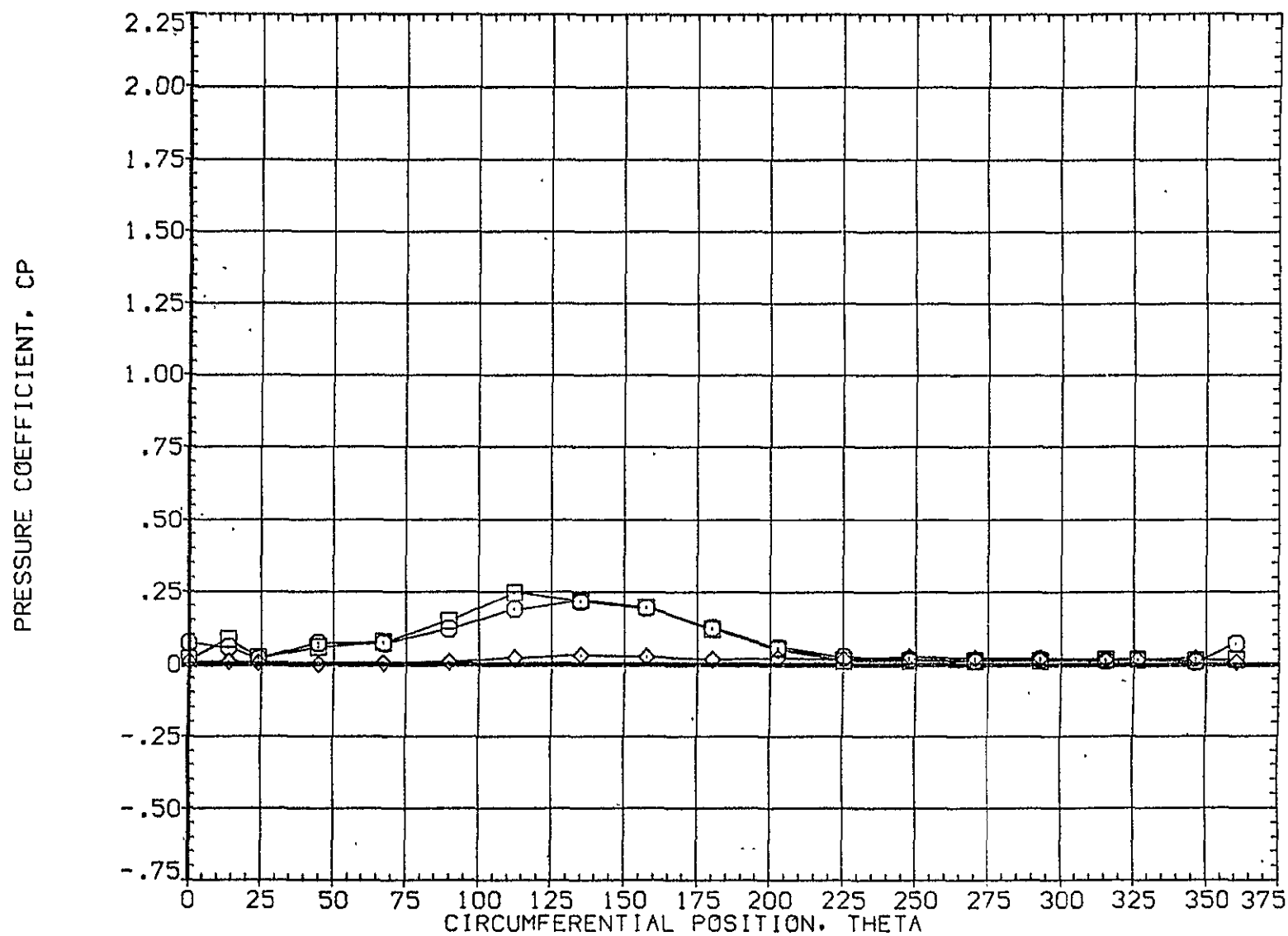


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A099)

SYMBOL	X/LB	ALPHA	MACH	BETA	PARAMETRIC VALUES	OFFSET	20.000
○	.055	24.510	4.960	MOUNT	.000	PHI	315.000
□	.108				1.000		
◇	.162						

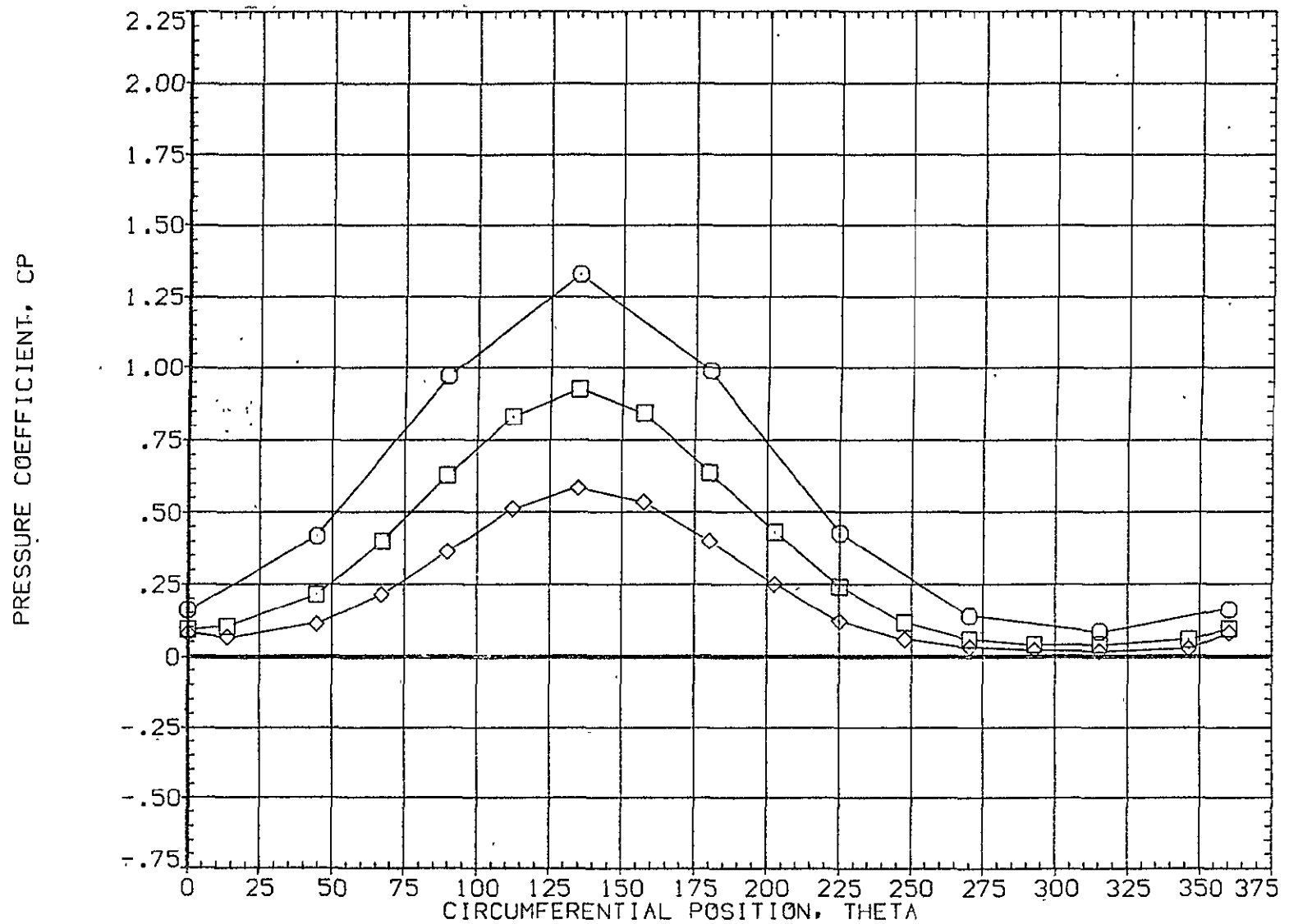


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.216	24.510	4.960
□	.322		
◇	.518		

PARAMETRIC VALUES		
BETA	.000	OFFSET 20.000
WING	1.000	PHI 315.000

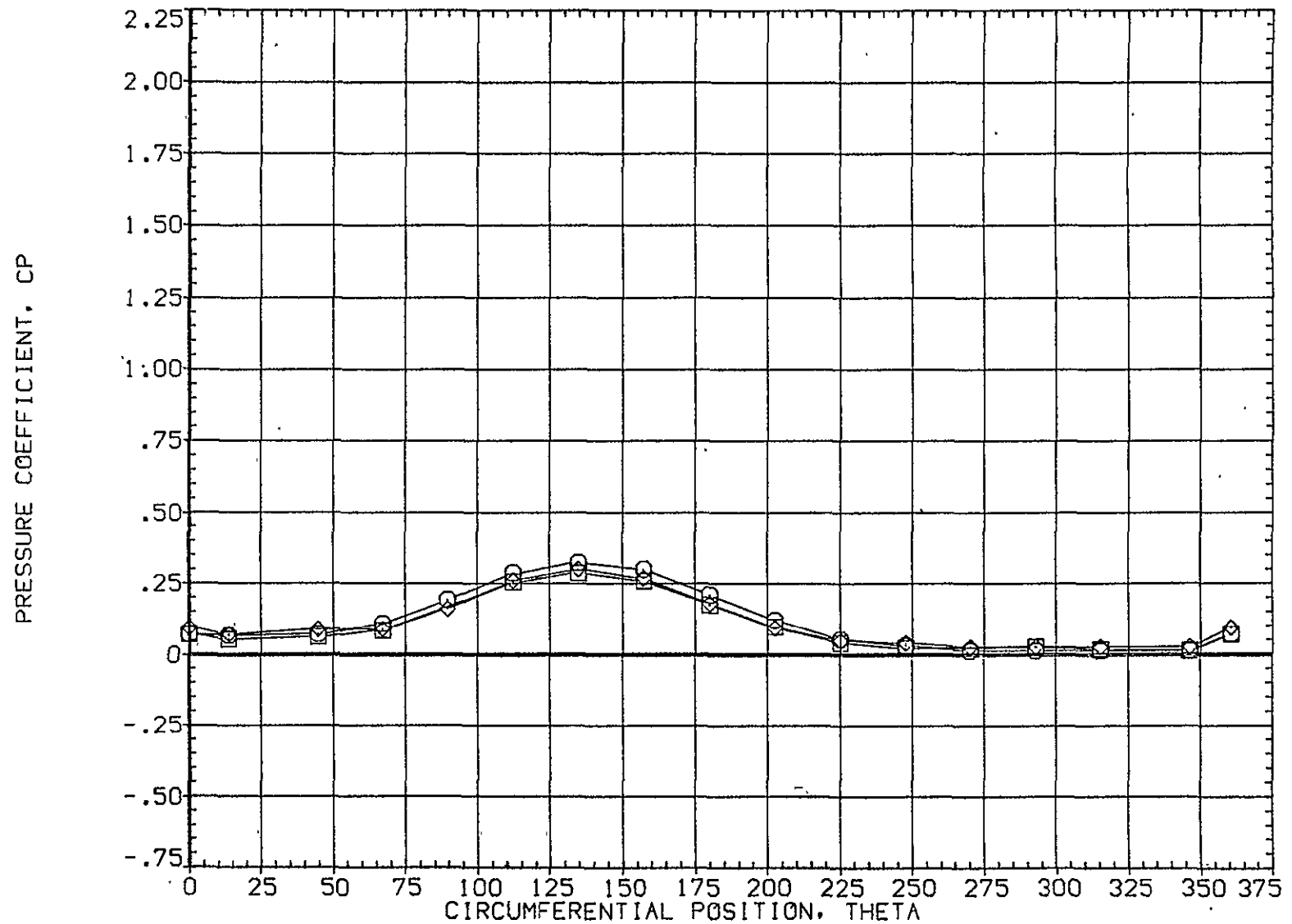


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A099)

SYMBOL
○
□
◇

X/LB
.610
.735
.860

ALPHA
24.510

MACH
4.960

BETA
MOUNT

PARAMETRIC VALUES

.000
1.000

OFFSET
PHI

20.000
315.000

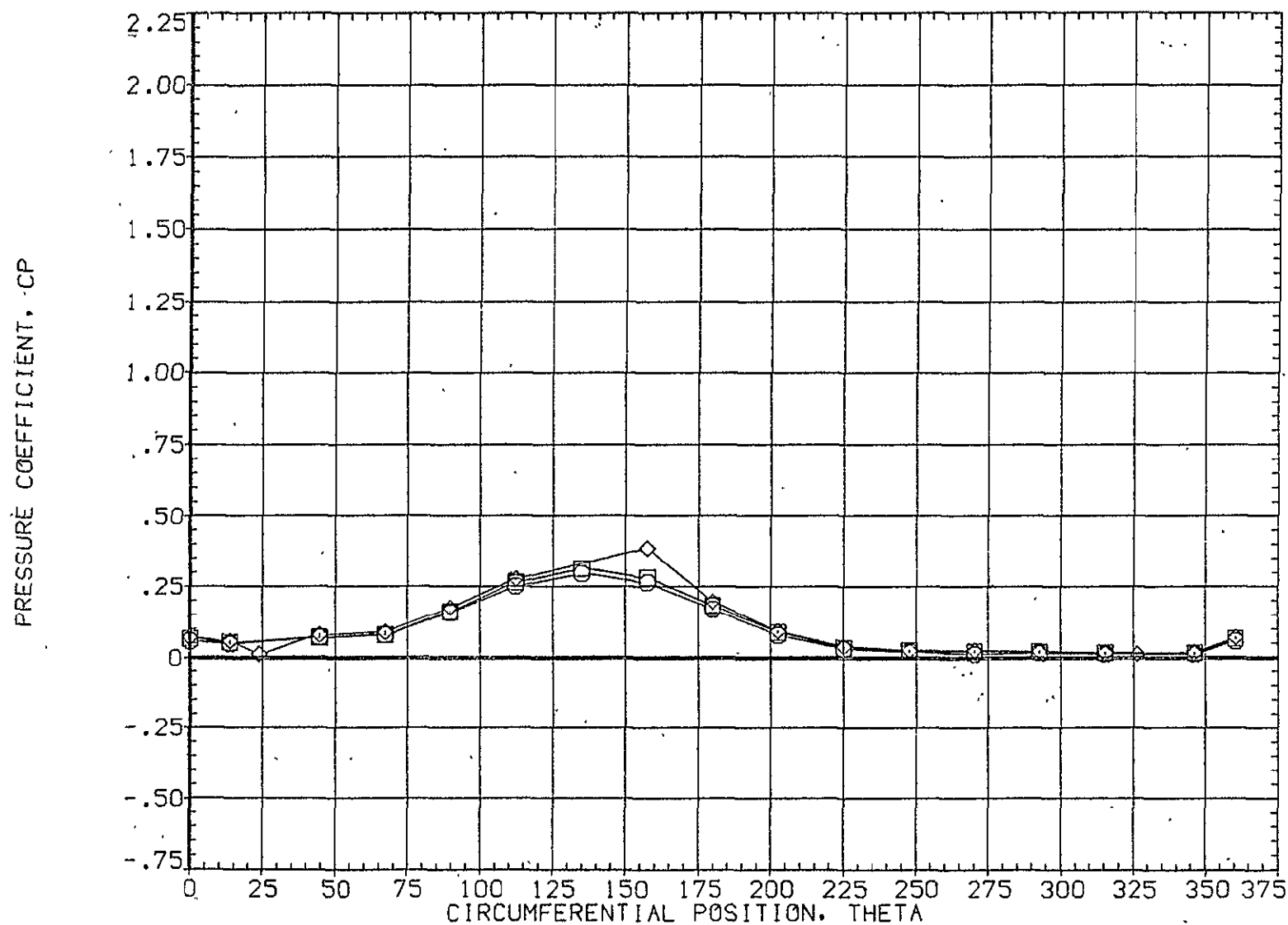


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	OFFSET	
○	.892	24.510	4.960	.000	20.000	
□	.923			1.000	PHI	315.000
◇	.954					

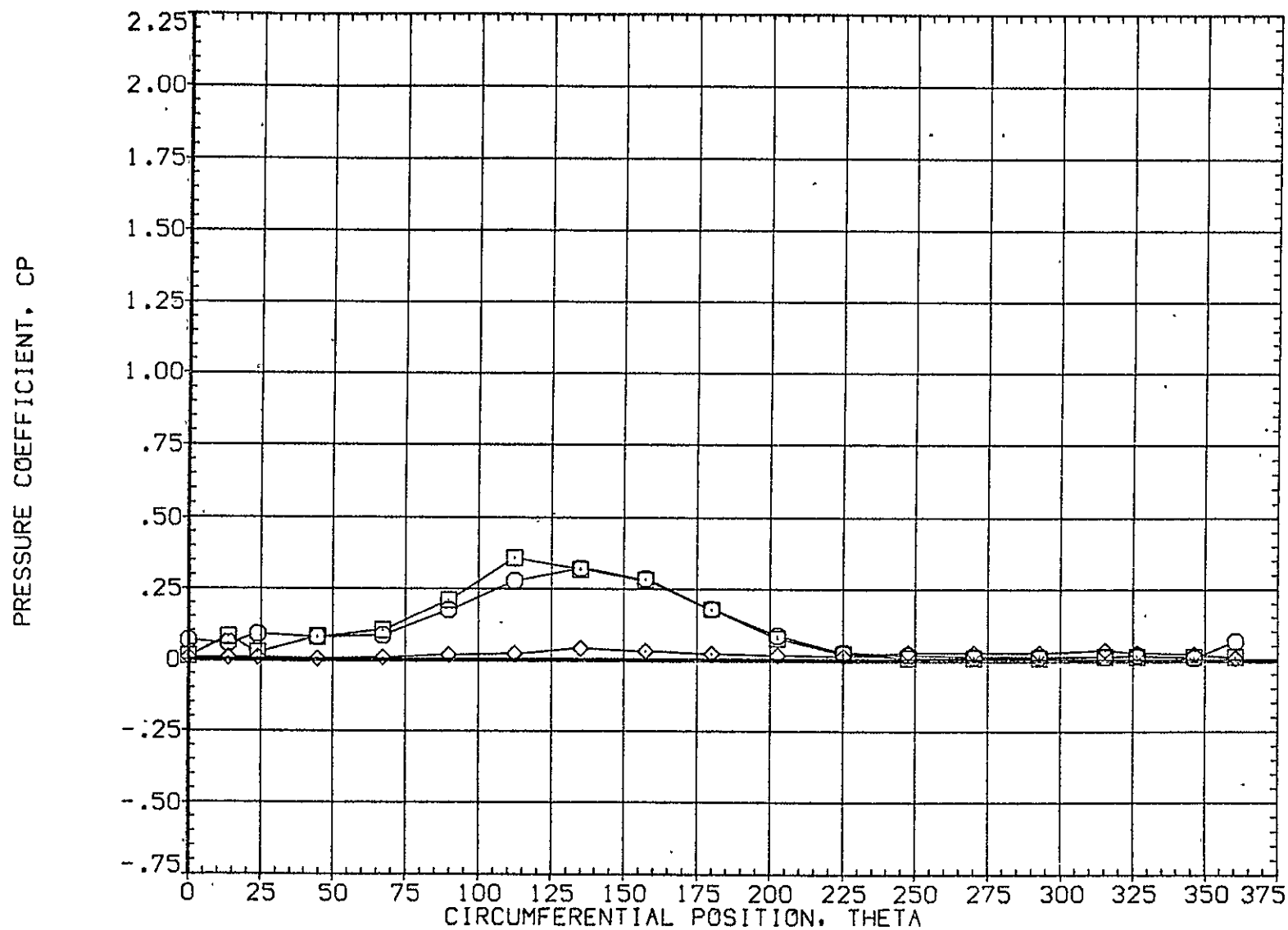


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A100)

SYMBOL

X/LB

ALPHA

MACH

BETA

PARAMETRIC VALUES

MOUNT

.000

OFFSET

20.000

1.000

PHI

315.000

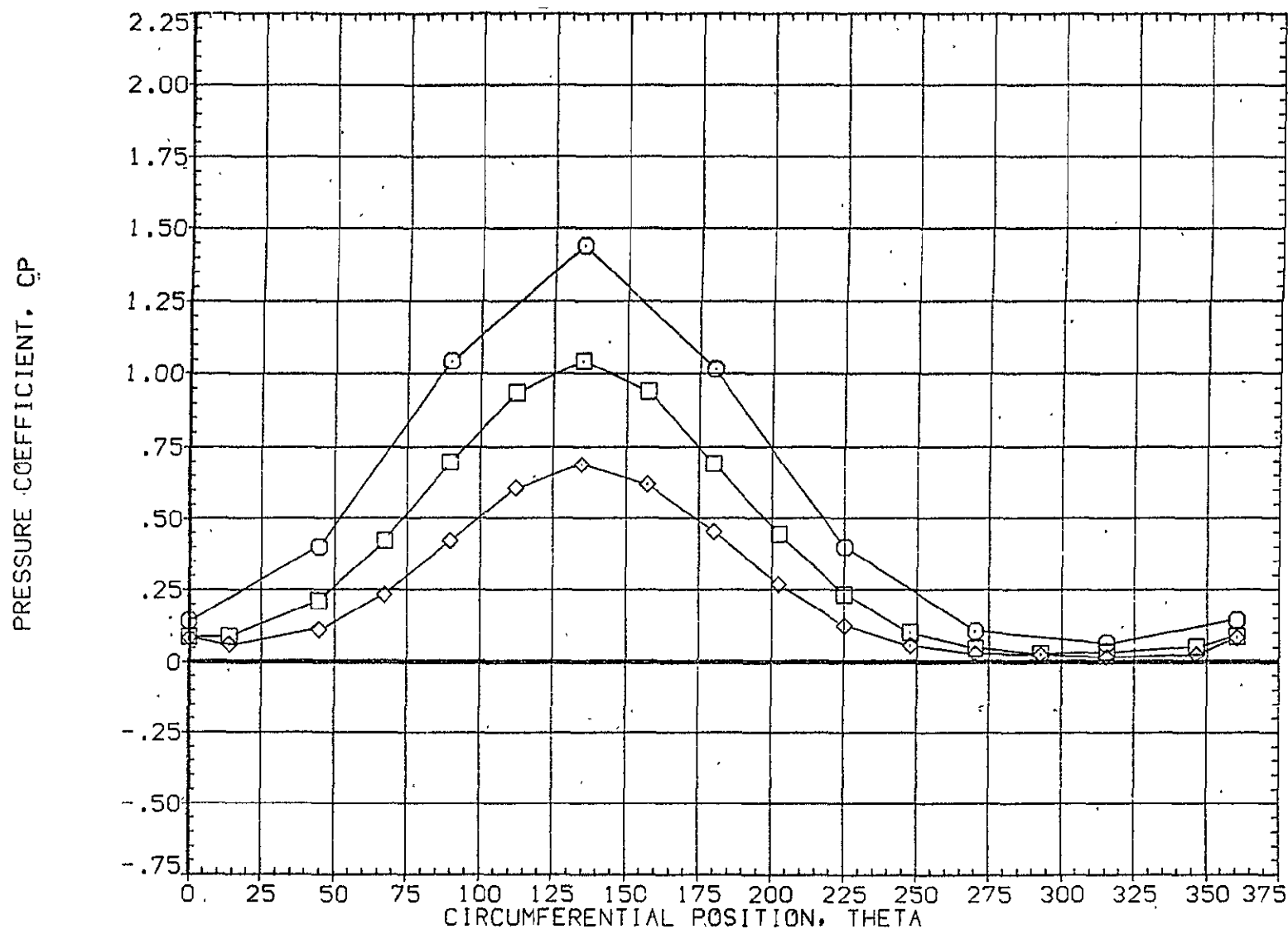


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL
○
□
◇X/LB
.216
.322
.518ALPHA
28.540MACH
4.960BETA
MOUNT

PARAMETRIC VALUES

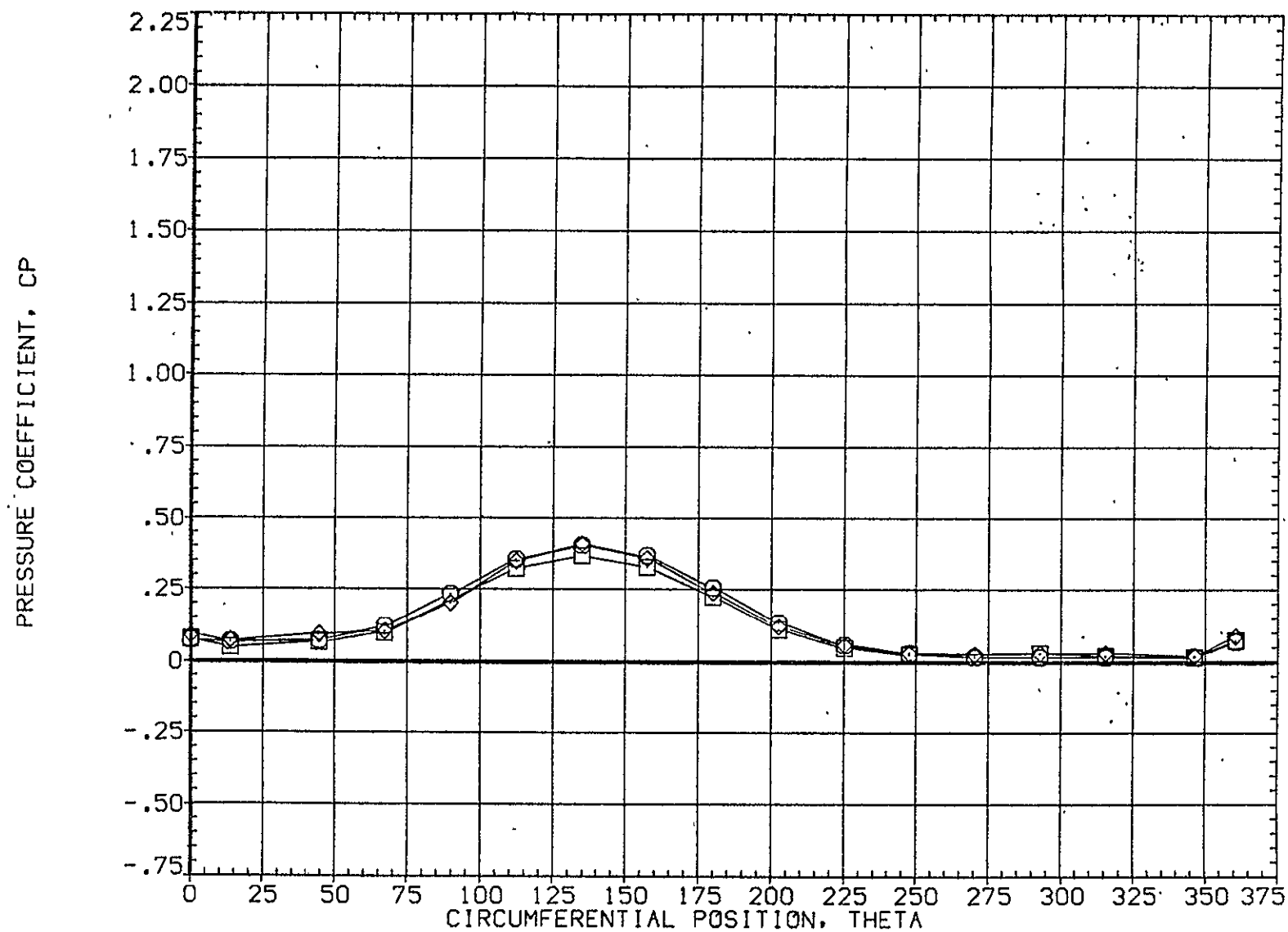
.000
1.000OFFSET
PHI20.000
315.000

FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

SYMBOL	X/LB	ALPHA	MACH
○	.892	28.540	4.960
□	.923		
◇	.954		

PARAMETRIC VALUES			
BETA	.000	OFFSET	20.000
MOUNT	1.000	PHI	315.000

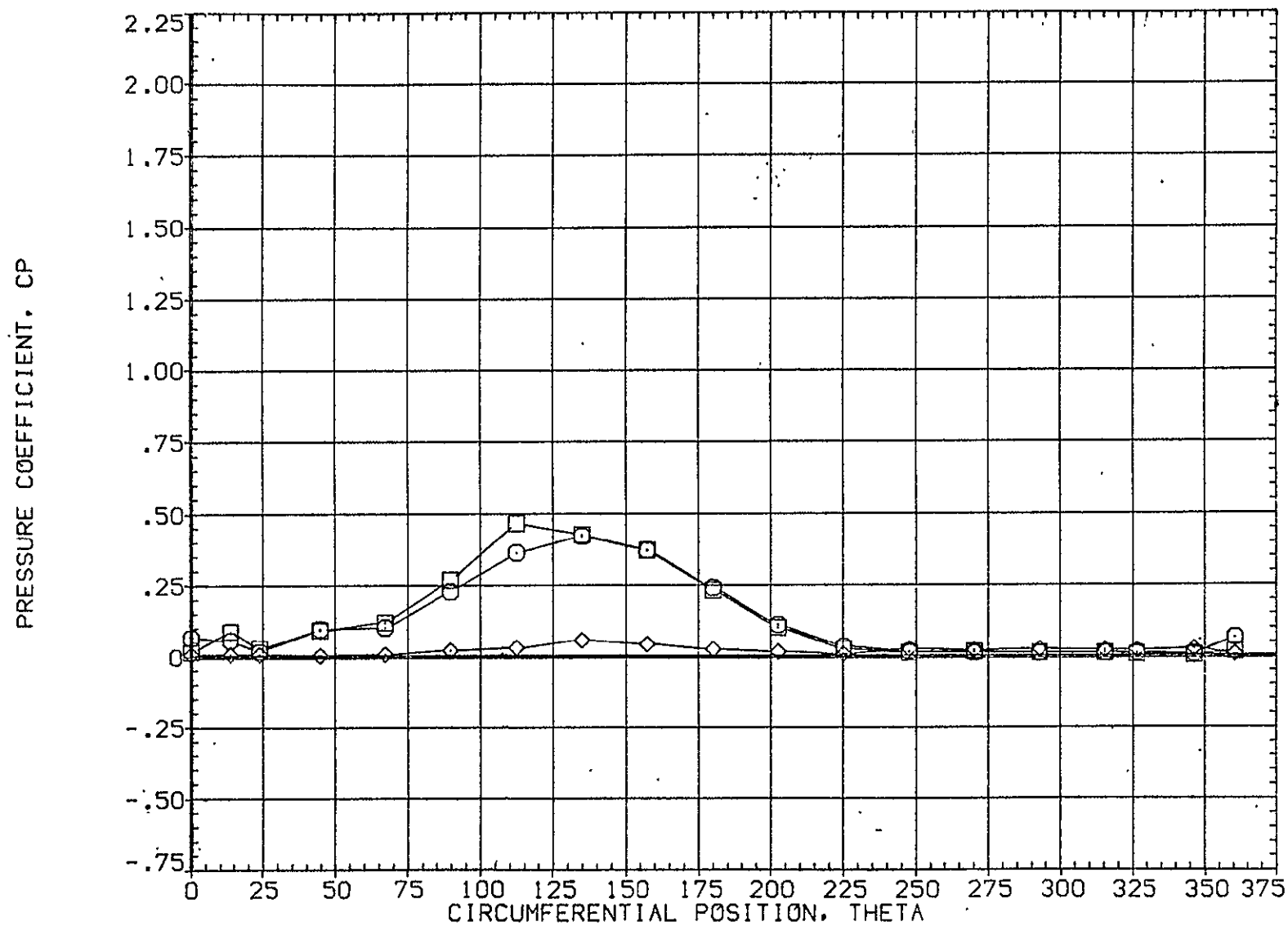


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES

MSFC 596 (TA-2F) MCR0200 EXTERNAL TANK, T1

(P1A100)

SYMBOL	X/LB	ALPHA	MACH
○	.610	28.540	4.960
□	.735		
◇	.860		

BETA	PARAMETRIC VALUES	OFFSET	20.000
MOUNT	.000	PHI	315.000

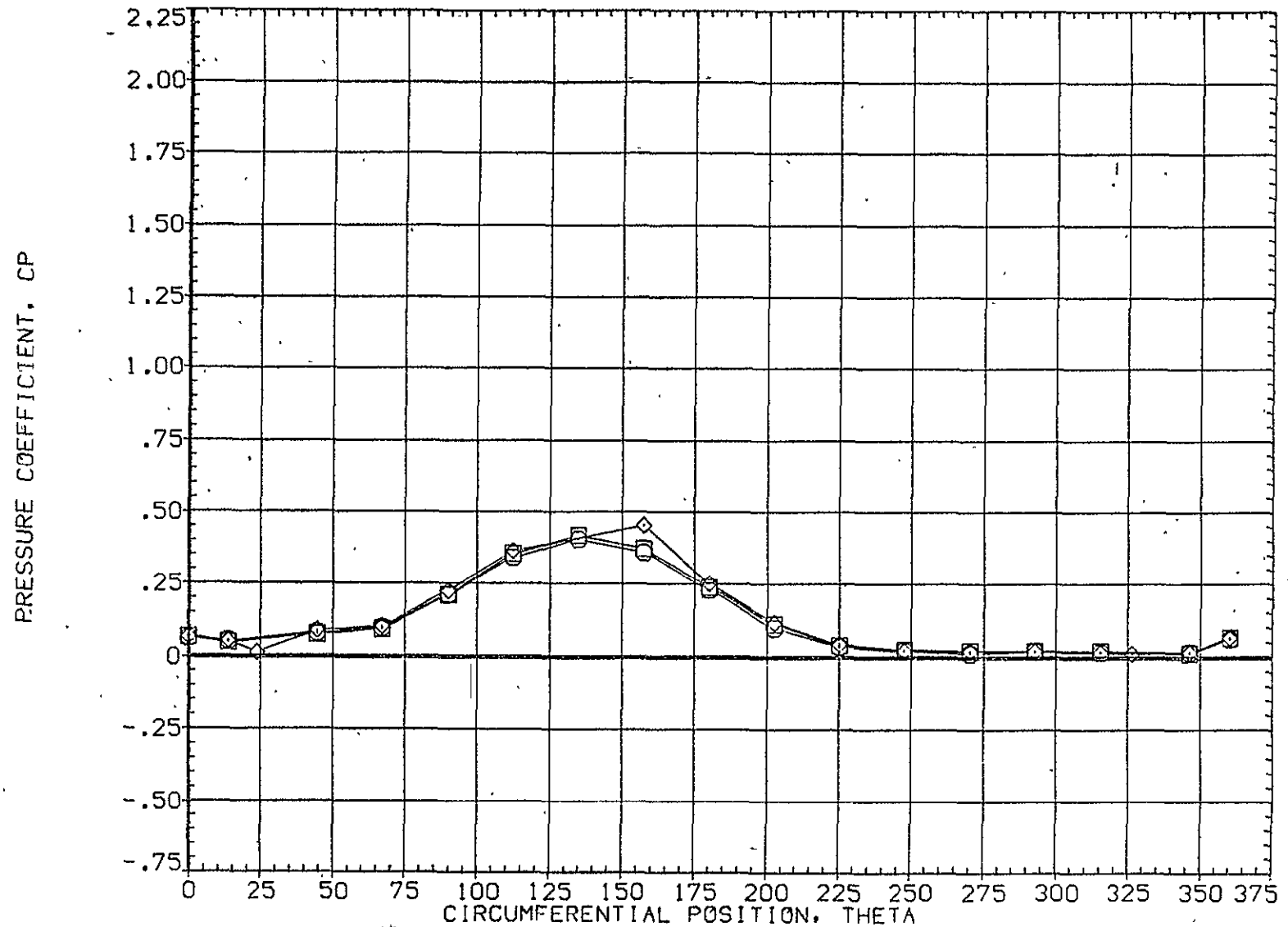


FIG. 5 CIRCUMFERENTIAL PRESSURE DISTRIBUTION OVER ET - T1 WITH PROTUBERANCES